11/10/83
A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 61 - No. 10

October, 1983

Paper and Paperboard Production: Spurting Ahead

The rate of paper and paperboard production shot up dramatically in the third quarter of 1983, with the September trend value (the average of the August and September seasonally adjusted rates) moving to a unprecedented 66.75 million tons per year, exceeding the high trend level of 65.3 million tons per year attained in August. July 1983 was the first time that the rate of paper production reached the 64 million tons per year rate, and rates have moved up in both August and September.

Production in the first half of 1983 was at the rate of 62.6 million tons per year, which was about one-half percent below the record-high 62.9 million tons per year reached in the first half of 1981. The third quarter performance broke that record.

Data for the first two weeks of October show production of paper and paperboard at a seasonally adjusted rate above the 67 million tons per year level. Furthermore, should production remain at that rate for the remainder of 1983, the total production for the year would be in excess of 64.5 million tons, 8.4% above the 1982 recession low and 3.5% above the previous high of 62.3 million tons established in 1981.

The actual rate of production in the first nine months of this year was at an annual rate of 63.8 million tons, 7.5% above the 1982 rate and 2.4% above the average level for all of 1981.

The January-September 1983 gains in production over 1982 were distributed more or less equally between the paper and paperboard grades. Total paper production in the first nine months of 1983 for example, was 6.9% above its comparable 1982 level, while paperboard production showed a gain of 8.0%.

Continued on Page 2

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Continued From Page 1

However, production of both paper and paperboard was severely depressed in 1982, with paperboard output moving lower than paper. Thus a better indication of the longer term trend of production would be a comparison with 1981: The seasonally adjusted rate of paper production in the January-September 1983 period was 4.4% above its average 1981 level, while the rate of paperboard production showed a gain of 0.6%.

The table in the center of the Industry Data Sheet accompanying this report presents a comparison of indexes of paper and paperboard new supply (production plus imports less exports) relative to appropriate measures of end use. End use indexes were constructed by applying weights to the measures of activity in the major markets for these products. The weights reflect the importance of these markets to paper and paperboard demand. (The new supply figure for September includes an estimate of net imports in that month.)

New supply of paper in the first nine months of 1983 rose 7.7% above 1982 and this compared with a 3.2% increase in the end use index. Compared to 1981, however, the end use index showed a 2.8% gain and new supply a 4.8% increase.

The analysis of the paperboard market shows a similar relationship. Paperboard new supply in the first nine months of 1983 was 7.8% ahead of 1982; this compares to a 4.5% gain in end use activity. Relative to 1981, however, new supply was 0.7% below the average rate for 1981 as a whole, while the end use index was down by 1.8%.

Within the paper grades, the greatest gains continue to be shown by coated and uncoated free sheet papers in the printing/writing grades, by other packaging and industrial converting papers and by tissue paper production. The gains over 1982 ranged from about 8% to over 11%, as shown in the table on page 3 and in the Industry Fact Sheet. All the major grades of paper have moved above their first half rates in the third quarter of the year, pointing to the breadth of the recovery.

The only grades in which new orders and unfilled order data are collected among the paper grades are in printing and writing. In each case, new orders for the first nine months of the year were well above the level of shipments, resulting in significant increases in the unfilled order backlog. There was some caution, however, in the September performance; new orders for coated papers were 6% below the shipments rate in September. For the uncoated groundwood and uncoated free sheet papers, new orders were also below the shipments level, but by modest amounts.

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

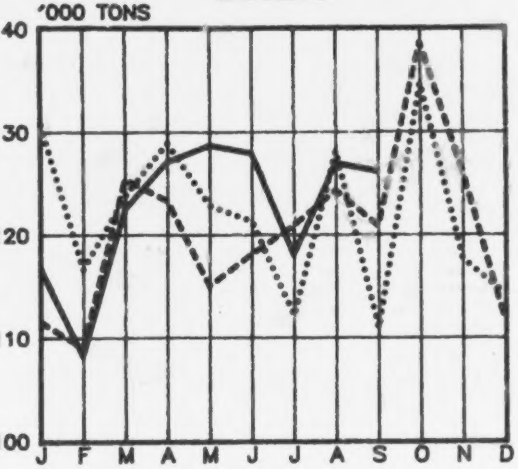
	YEAR 81	YEAR 82	JUNE 83	JULY 83	AUG. 83	SEPT 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
					R	P		
PAPER								
Newsprint - Production	5239	5042	410	417	459	415	5132	0.8
- Shipments	5220	4988	435	436	457	413	5083	1.9
Printing & Writing	15722	15643	1481	1337	1533	1408	17039	9.3
Groundwood Paper - Shipments	1463	1459	128	118	127	126	1471	2.3
- New Orders	1449	1469	131	135	162	125	1544	4.7
- Unfilled Orders	100	91	99	114	145	145	145	37.9
Coated Paper - Shipments	4940	5032	481	453	536	469	5578	11.4
- New Orders	4893	4998	543	499	556	441	5793	16.7
- Unfilled Orders	360	325	457	524	528	502	502	57.7
Unctd Free Sheet - Shipments	7898	7947	732	652	754	698	8580	9.6
- New Orders	7735	7820	744	755	777	696	8938	14.8
- Unfilled Orders	370	321	480	588	608	611	611	90.4
Thin Paper - Shipments	336	323	30	24	28	26	333	1.6
Cotton Fiber Paper - Shipments	125	118	9	9	11	11	122	1.7
Bleached Bristols - Production	960	865	81	81	78	78	956	9.9
Tissue Paper - Production	4518	4438	382	385	421	385	4735	7.8
Total Packaging & Other Paper *	5552	5300	460	415	514	500	5562	5.1
Unbl. Kraft Paper - Shipments	3880	3688	312	287	348	335	3775	2.9
Other Paper - Production *	1672	1612	148	128	165	165	1787	10.1
TOTAL PAPER-Production-Unadj.	31030	30422	2722	2553	2926	2708	32468	6.9
-Production-S.A.			2659	2748	2814	2815	32401	6.9
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	24231	22589	2048	1984	2129	2117	24588	7.8
Unbl. Kraft Linerboard (1)	14540	13484	1232	1194	1307	1320	14950	10.1
Production for Export	1887	1931	188	185	191	200	2244	13.3
Other Unbl. Kraft Paperboard	1062	1040	98	107	87	96	1096	0.7
Semichemical Paperboard	4719	4389	395	386	406	395	4673	6.0
Production for Export	155	185	15	20	21	17	217	13.8
Solid Bleached Paperboard	3910	3665	325	307	329	306	3869	3.6
Production for Export	557	525	53	35	37	36	523	-2.8
Recycled Paperboard	7001	6476	609	569	614	609	7124	8.6
Production for Export	24	13	6	2	1	1	24	82.4
TOTAL PAPERBOARD-Prod.-Unadj.	31232	29065	2658	2563	2743	2726	31712	8.0
- Containerboard Prod.(Dom. Use)	19040	17508	1588	1525	1668	1653	19054	8.5
- Boxboard Prod.(Dom. Use) (2)	5544	5150	446	427	452	446	5416	3.3
- All Other P'bd Prod.(D.U.) (2)	4026	3753	362	368	373	372	4234	10.3
- Total Paperbd Prod. for Export	2622	2654	262	243	250	255	3008	10.5
TOTAL PAPERBOARD PROD. - S.A.			2569	2690	2640	2858	31430	8.0
TOTAL PAPER AND PAPERBOARD Production - actual	62262	59488	5381	5117	5669	5434	64180	7.4
Production - S.A.			5227	5438	5453	5672	63831	7.5

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P	Preliminary
R	Revised
S.A.	Seasonally Adjusted

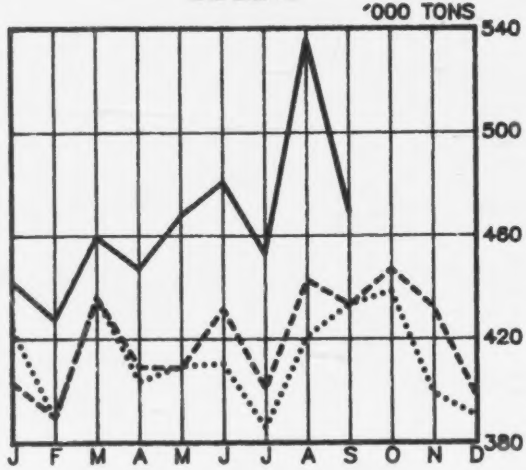
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



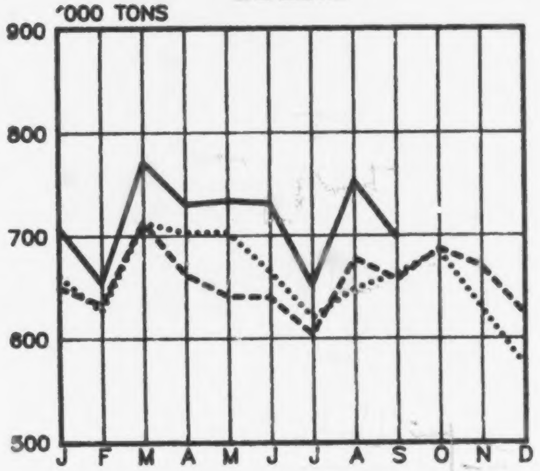
COATED PAPER

SHIPMENTS



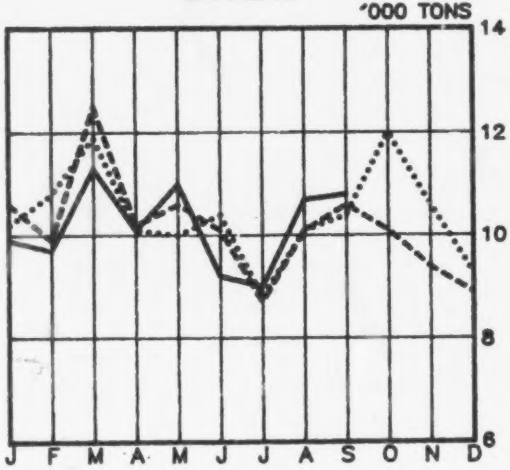
UNCOATED FREE SHEET PAPERS

SHIPMENTS



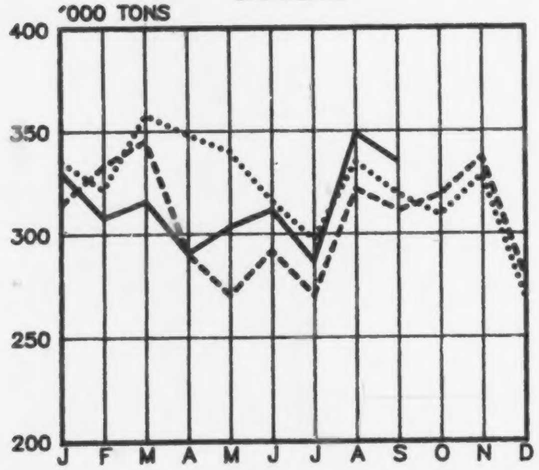
COTTON FIBER PAPER

SHIPMENTS



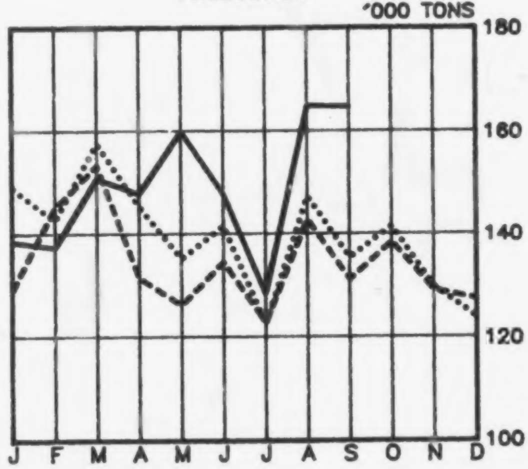
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1981 ········ 1982 ----- 1983 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 81	82	MAY 83	JUNE 83	JULY 83	AUG. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	52041	49337	4517	4407	4109	4460	51972	3.8
- Imports	4087	3656	378	357	327	350	3836	8.9
- Exports	3678	3385	312	324	259	289	3548	1.6
- New Supply	52450	49588	4583	4440	4177	4521	52360	4.3
Dissolving Pulp - Production	1353	1082	133	123	72	99	1253	11.0
- Imports	249	186	24	13	21	10	206	7.2
- Exports	784	631	40	50	31	60	608	-3.8
- New Supply	818	647	117	87	62	50	850	23.6
Paper Grades Chemical Pulp - Production	41445	39481	3624	3531	3320	3594	41853	4.5
- Imports	3655	3302	342	328	291	322	3560	9.0
- Exports	2870	2736	267	268	224	227	2893	2.0
- New Supply	42230	40047	3698	3591	3387	3689	42520	5.0
Groundwood and Thermo-Mech. - Production	5320	5064	432	417	405	436	5031	-1.2
- Imports	183	167	12	15	15	17	170	7.7
- Exports	24	27	5	5	3	2	45	107.7
- New Supply	5478	5204	439	427	416	451	5155	-1.4
Semi-Chemical - Production	3924	3898	328	335	312	331	3835	1.2
- Imports	0	0						
- Exports	0	0	------ Included with Groundwood Pulp ------					
- New Supply	3924	3898	329	335	312	331	3835	1.2
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6210	5732	584	548	483	566	6418	8.7
- Imports	2824	2443	305	263	233	227	2817	16.1
- Exports	3352	3143	289	321	268	297	3462	7.9
- New Supply	5782	5031	599	490	457	497	5773	12.7
Dissolving Pulp - Production	1352	1088	133	123	72	99	1253	11.1
- Imports	241	184	23	12	22	15	209	7.7
- Exports	787	675	48	85	45	52	683	4.1
- New Supply	806	608	108	50	49	62	769	17.3
Paper Grades Chemical Pulp - Production	4857	4643	450	423	420	466	5152	7.9
- Imports	2634	2202	277	249	208	210	2579	17.8
- Exports	2555	2468	240	236	224	245	2768	8.9
- New Supply	4936	4377	487	436	405	431	4963	12.2
Groundwood Pulp and All Other - Production	2	1	2	1	1	1	13	4100.0
- Imports	49	48	4	2	2	3	29	-32.0
- Exports	10	0	1	0	0	0	1	500.0
- New Supply	40	47	5	4	3	4	41	-4.8

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

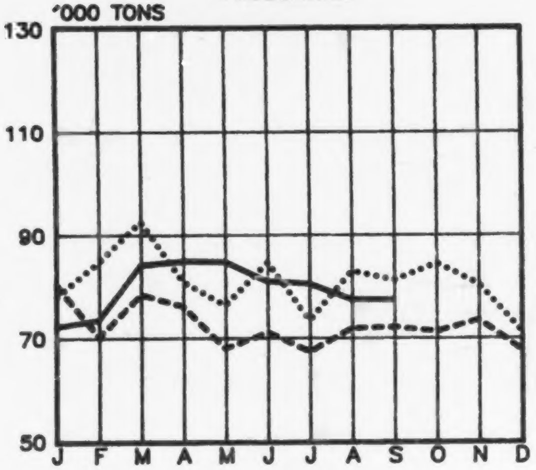
					R	P		
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	64573	61645	5597	5531	5140	5559	64672	4.0
Total Wood Pulp	50698	48120	4376	4326	4012	4354	50486	3.7
Waste Paper	13875	13525	1221	1205	1128	1205	14186	5.2
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	188	177	208	201	208	212	212	0.8
Market Pulp at Pulp Mills	383	437	434	425	451	464	464	-3.7
Mkt Pulp at Ppr. & Bd. Mills *	454	482	528	515	489	489	489	18.4
Waste Paper at Paper &Bd. Mills	1211	1017	812	856	854	853	853	-14.8
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	33	37	30	30	33	34	34	-15.0

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

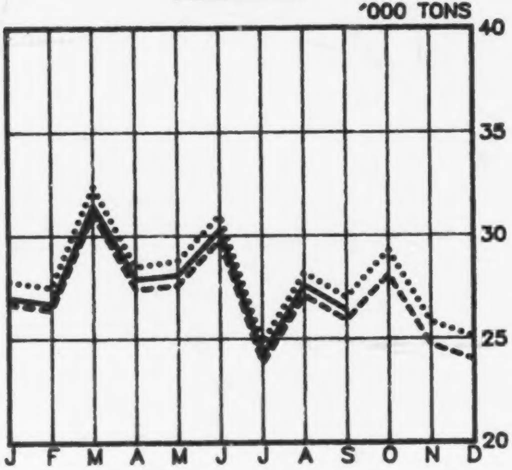
BLEACHED BRISTOLS

PRODUCTION



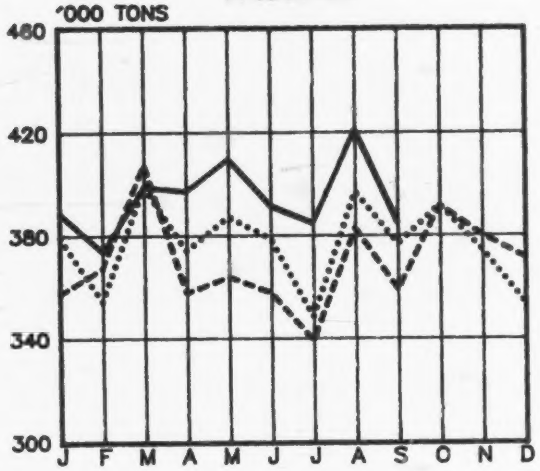
THIN PAPER

PRODUCTION



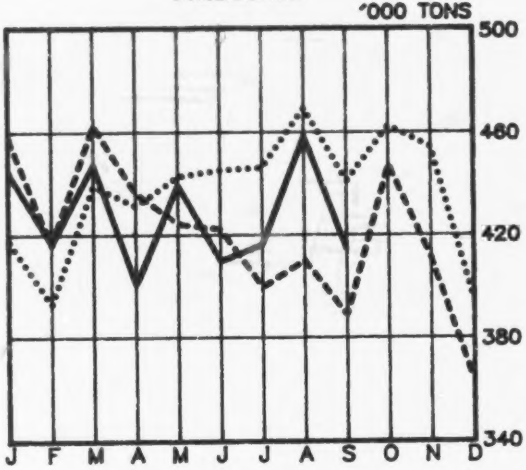
TISSUE PAPER

PRODUCTION



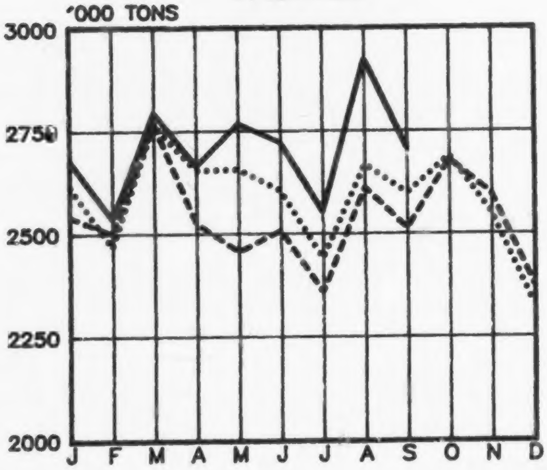
NEWSPRINT

PRODUCTION



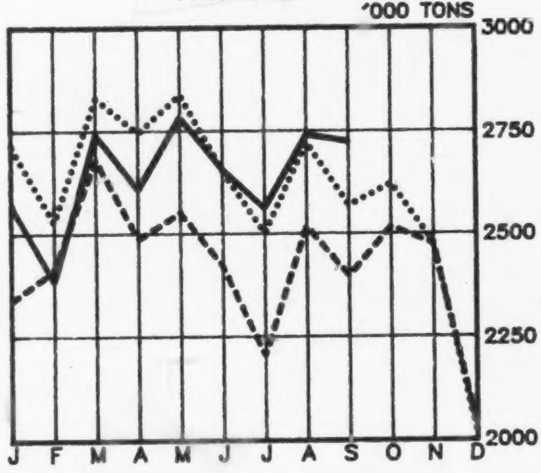
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1981 ········ 1982 ‒ ‒ ‒ ‒ 1983 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

PULPWOOD		YEAR 81	YEAR 82	MAY 83	JUNE 83	JULY 83	AUG. 83	Annual Rate Y-T-D 83	% Change from same Period Last Year
Total U.S.	- Total Receipts	79547	78519	6843	7154	6821	7445	83453	6.6
	- Total Consumpt.	79747	79038	7025	7188	6801	7395	85046	7.4
	- Residues *	30590	31152	2731	2846	2644	2784	32387	6.2
	- Inventories	6045	5426	4677	4763	4952	5177	5177	0.4
So. Atlantic	- Total Receipts	24681	23768	2200	2164	2012	2219	25470	8.7
	- Total Consumpt	24815	23725	2123	2115	1983	2198	25706	9.1
	- Residues *	8770	8273	647	655	621	686	7761	-3.3
	- Inventories	1051	1165	878	1028	1090	1143	1143	17.0
Northeast	- Total Receipts	7803	7283	511	597	532	642	6824	-8.1
	- Total Consumpt	7712	7221	513	607	550	629	7218	-1.9
	- Residues *	1362	1452	97	107	59	96	1136	-19.4
	- Inventories	635	652	398	439	443	469	489	-23.9
South Central	- Total Receipts	27744	26510	2407	2448	2420	2633	28923	9.2
	- Total Consumpt	27687	27153	2462	2484	2366	2527	29016	5.5
	- Residues *	8923	8616	762	806	771	800	9194	8.7
	- Inventories	1825	1346	1236	1203	1259	1308	1308	3.0
North Central	- Total Receipts	5650	5801	482	535	514	523	6234	13.3
	- Total Consumpt	5708	5708	550	541	498	522	6347	11.5
	- Residues *	1439	1517	154	150	140	147	1799	31.9
	- Inventories	1106	925	800	797	805	833	833	-5.3
West	- Total Receipts	13669	15356	1343	1410	1343	1428	16002	3.9
	- Total Consumpt	13825	15234	1377	1441	1403	1519	16760	11.3
	- Residues *	10096	11294	1071	1128	1053	1055	12498	11.3
	- Inventories	1428	1338	1267	1296	1355	1424	1424	0.8

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 82 Tons	YEAR 82 $000	JULY 83 Tons	JULY 83 $000	AUG. 83 Tons	AUG. 83 $000	Annual Rate Y-T-D 83	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	87043	4711	8561	372	11218	499	101819	9.4
Pulpwood Chips	1678793	51374	163254	391	166118	4001	1960604	11.3
Wood Pulp, Total	3364194	1388688	289752	104517	344753	123999	3600032	7.4
Waste Fibrous Materials, Total	129749	23298	14088	2191	15425	2517	157833	23.6
Paper, Board & Products, Total	7707948	3272224	657501	263305	712442	293758	8109570	8.1
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	7665499	3201221	652753	254810	707895	285649	8058568	6.1
Paper Paperboard & Products	7327112	3192595	613892	254111	671779	284934	7661030	4.9
Paper & Paperboard, Only	7284663	3121592	609144	245616	667231	276825	7611028	4.8
Paper, Total	7171243	3093475	597165	242544	655950	274038	7463435	4.2
Newsprint	6484605	2730256	535048	211039	577557	233875	6708050	2.7
Printing, Writing & Rel. Pap.	612760	310154	56072	27367	69993	35419	667314	19.0
Pack. & Ind. Conv. Paper	66300	46060	4722	3043	7177	3777	75240	13.4
Special Industrial Paper	1899	3123	215	341	181	306	2634	54.4
Tissue Paper	5680	3882	1107	753	1041	660	10197	73.2
Paperboard, Total	113420	28117	11979	3071	11281	2788	147593	54.1
Convtd Paper&Paperbd Products	42449	71003	4748	8495	4547	8109	50003	20.5
Wet Machine Board	1302	737	280	184	180	119	3162	194.1
Construction Paper & Board	379533	78882	43329	9010	40483	8705	445378	32.1

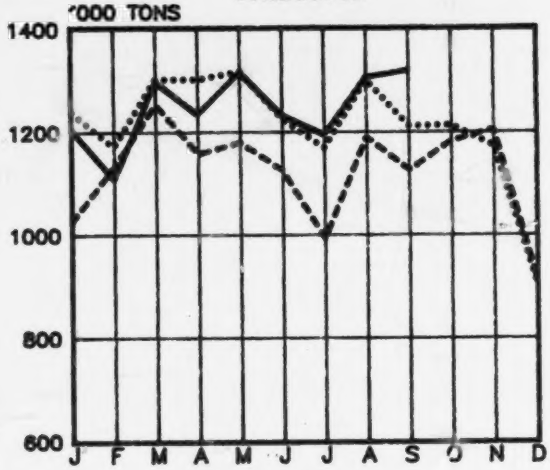
EXPORTS TO CANADA

	YEAR 82 Tons	YEAR 82 $000	JULY 83 Tons	JULY 83 $000	AUG. 83 Tons	AUG. 83 $000	Annual Rate Y-T-D 83	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	107700	7263	3659	168	4091	283	54816	-52.1
Pulpwood Chips	27650	1500	4810	301	2136	88	38980	42.0
Wood Pulp, Total	116067	54691	8298	3371	9187	4152	134039	16.0
Cotton Pulp & Other Pulp	6790	4152	1488	533	567	247	9138	56.2
Waste Paper	271395	32555	26268	3032	33198	3800	337658	33.9
Paper, Board & Products, Total	583206	442437	47523	31754	57770	41904	650620	28.4
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	383566	275107	33381	20343	37827	26783	450468	23.8
Paper, Paperboard & Products	561355	433689	45486	30986	55155	40980	617730	27.5
Paper & Paperboard, Only	361714	266359	31344	19585	35212	25859	417579	22.1
Paper, Total	188370	185357	16247	13824	18709	18132	230764	25.8
Newsprint	3037	2671	566	432	315	305	3980	42.1
Printing, Writing & Rel. Pap.	113443	85899	8498	8650	10805	9074	122822	13.3
Pack. & Ind. Conv. Paper	20289	13615	2745	1491	3128	1914	32054	68.8
Special Industrial Paper	47736	70111	4321	5108	4177	6571	68064	37.0
Tissue	3864	3062	118	144	284	268	3734	5.0
Paperboard, Total	173345	81001	15097	5761	16503	7727	186814	17.9
Convtd Paper&Paperbd Products	199640	167330	14142	11411	19944	15121	200152	40.4
Wet Machine Board	4365	2537	217	168	243	144	5751	19.6
Construction Pap & Bd. E	17487	6212	1820	590	2372	781	27138	57.0

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

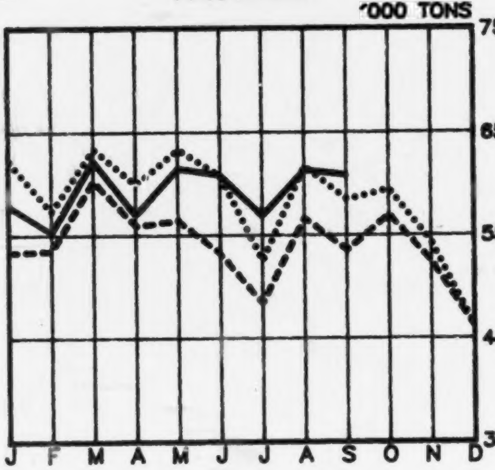
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



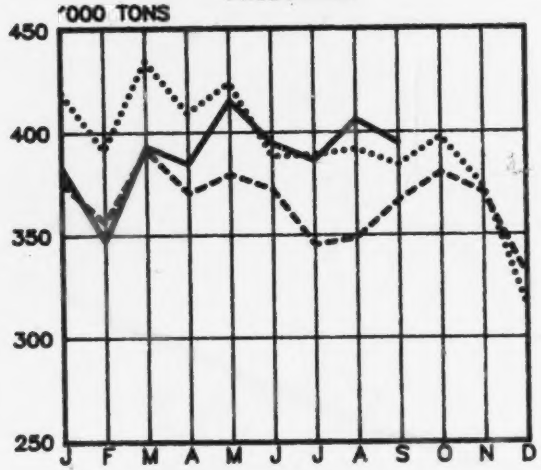
RECYCLED PAPERBOARD

PRODUCTION



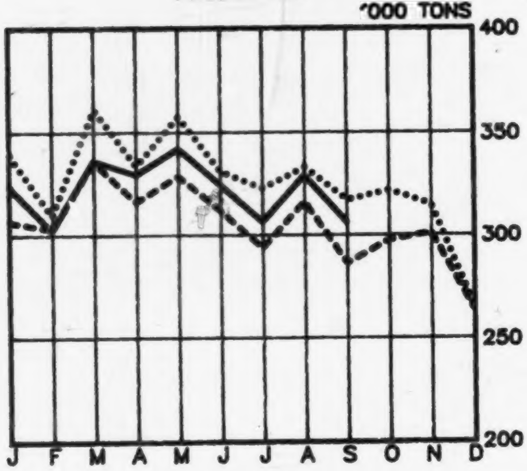
SEMICHEMICAL PAPERBOARD

PRODUCTION



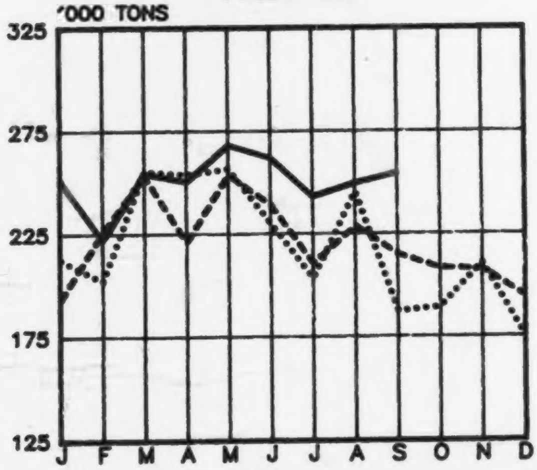
SOLID BLEACHED PAPERBOARD

PRODUCTION



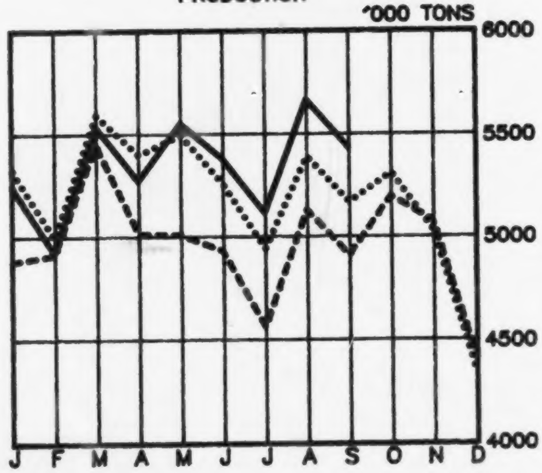
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1981 ········ 1982 - - - - - 1983 ———

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 82 Tons	82 $000	JULY 83 Tons	83 $000	AUG. 83 Tons	83 $000	(1) Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (cords)	87043	4711	8561	372	11218	499	101819	9.4
Pulpwood Chips	1682414	51538	163257	3916	166135	4005	1966929	11.3
Total All Imports	11824303	5209303	1043805	429266	1132900	475806	12774628	9.1
Wood Pulp, Total	3655786	1483241	326754	115881	349629	125748	3935906	8.9
Waste Paper	74332	8450	10270	1018	11035	1277	100730	37.6
Other Fibrous Materials	70176	24212	4530	1826	5286	1909	67539	-4.3
Paper, Board & Products, Total	8024009	3682401	702351	310541	766850	346871	8670454	9.1
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	7917418	3344205	689886	274084	753640	307661	8531449	8.7
Paper, Ppbd & Prds ex Cnst&WMB	7602651	3594201	654518	300107	720502	336517	8173845	7.9
Paper & Paperboard, Only	7496060	3258005	642053	263650	707193	297308	8034840	7.6
Paper, Total	7381252	3226307	629671	260292	694986	293925	7877111	6.9
Newsprint	6530676	2748652	538250	212130	584131	235863	6774438	2.9
Printing & Writing	764095	408551	83811	42201	101009	51915	992462	41.4
Uncoated Groundwood	514882	248196	51160	23169	63765	29313	652010	37.4
Uncoated Book	142626	80105	11631	6449	13690	7830	140170	1.8
Coated Print.& Impres. Par	69010	46763	13311	7984	15314	9472	127125	125.2
Bristols	391	416	17	18	20	37	323	-12.0
Writing and Similar Paper	25893	19225	7061	3638	7108	4138	58932	155.9
Thin (except Cigarette)	11293	13846	631	943	1111	1125	13902	35.7
Total Pkg & Other Paper	79653	63863	6453	5123	8726	5379	99227	27.4
Unbleached Kraft Paper	23078	10749	1870	790	3869	1640	37258	72.3
Other Pkg. & Indust. Paper	56575	53114	4583	4333	4857	3740	61968	10.2
Tissue	6828	5241	1158	837	1120	768	10985	53.8
Paperboard, Total	114808	29698	12381	3358	12207	3381	157729	62.4
Test or Containerboard	35983	8459	3510	934	3622	972	48359	71.1
Semi-Chemical Corrugating	47295	9679	4620	945	4954	1110	60682	54.3
Other Paperboard	31531	11560	4252	1479	3631	1299	48689	64.9
Convtd Paper&Paperbd Products	106591	338196	12466	36457	13310	39210	139005	31.9
Paper Products, Total	92059	307245	9595	30129	11228	34639	112325	22.2
Paperboard Products, Total	14532	30851	2870	6328	2082	4571	26680	97.9
Wet machine Board	1842	1239	297	197	259	229	3573	105.2
Construction Paper & Board	419515	86961	47536	10237	46189	10126	493036	31.7
Notes								
Other: No Weight Avail. ($000)		135346		13202		15154	138116	1.1
Total Imports Incl. Other($000)		5344649		442469		490959	5405512	1.1

EXPORTS

	YEAR 82 Tons	82 $000	JULY 83 Tons	83 $000	AUG. 83 Tons	83 $000	(1)	
Pulpwood, Roundwood (cords)	111682	7475	3659	168	4091	283	55614	-53.2
Pulpwood Chips	2860133	231140	289644	19371	266382	15448	2760542	-7.4
Total All Exports	9872299	4315138	865404	334327	911262	354338	10642322	6.5
Wood Pulp, Total	3394848	1414558	258571	96335	288798	113465	3547854	1.6
Cotton Pulp and Other Pulp	104560	72327	9208	6235	5576	4143	94965	-11.5
Waste and Old Paper	2127050	238934	185841	23061	236526	28405	2394113	12.4
Paper, Board & Products, Total	4246041	2589319	411784	208686	380362	208325	4605391	8.0
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	3670413	1754352	367357	148411	330782	142823	4037393	7.9
Paper, Ppbd & Prod ex Cnst&WMB	4187119	2558943	407534	206839	374697	205809	4536876	8.0
Paper & Paperboard, Only	3611491	1723977	363107	146554	325117	140308	3968879	7.8
Paper, Total	840445	679068	73742	50761	59608	47827	790708	-12.2
Newsprint	307657	142964	32290	14249	22453	9084	294937	-10.5
Printing & Writing	246617	239135	16893	15385	16505	16503	199900	-22.3
Uncoated Groundwood	55916	48430	5285	3019	2847	2783	37624	-41.0
Clay Coated Paper	81373	65485	4876	3723	6446	4875	74845	-5.5
Uncoated Free Sheet	70599	75451	4515	5924	4730	5825	60281	-18.9
Other Printing & Writing	38729	49769	2217	2719	2482	3020	27150	-32.2
Total Pkg. & Other Paper	262861	271556	24079	20367	19034	20479	278914	-3.3
Unbleached Kraft	89068	38003	11529	3978	8226	2903	119754	35.9
Other Pkg. & Indust. Paper	173793	233553	12550	16389	10808	17576	159160	-20.5
Tissue	23310	25415	480	761	1616	1751	16958	-34.4
Paperboard, Total	2771046	1044908	289365	95792	265509	92481	3178171	14.3
Solid Wood Pulp	2612568	970814	272551	89936	247059	84252	3014706	14.4
Total Linerboard	1886193	542304	212651	51591	190375	49431	2259415	20.5
Bleached Kraft Linerboard	67595	26626	9750	3824	17909	7358	133156	124.0
Unbleached Kraft Linerbd	1818599	515677	202901	47767	172466	42073	2126259	17.1
Other Unbleached Kraft	138219	60780	9976	4162	6122	3329	104271	-33.0
Other Bleached Kraft	525733	349615	47883	33494	45404	30150	566206	4.4
Semi-Chemical Corrugating	61422	18116	2040	688	5159	1342	84813	38.5
Recycled Paperboard	158478	74084	16814	5857	18450	8229	163465	12.2
Convtd Paper&Paperbd Products	575628	834966	44427	80285	49581	65502	567998	9.2
Paper Products, Total	315805	591163	24468	43670	25218	46363	306098	-4.4
Paperboard Products, Total	259823	243804	19959	16618	24363	19139	261900	30.8
Wet Machine Board	11089	5939	477	330	590	362	12578	13.4
Construction Paper & Board E	47833	24437	3773	1528	5075	2153	55937	11.7
Notes								
Other: No Weight Avail. ($000)		8890		704		1013	7600	-22.5
Total Exports Incl. Other($000)		4324128		335032		355352	4155465	-3.9

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES
1967 = 100

	81	82	JUNE	JULY	AUG.	SEPT	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	270.8	273.2	269.4	269.9	270.1	271.7	269.4	-1.8
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	272.4	275.9	272.0	272.5	272.7	274.3	272.0	-1.8
Total Wood Pulp	397.1	379.1	346.5	347.5	348.2	348.4	345.7	-11.2
Total Paper	279.8	286.3	279.6	281.7	281.0	285.3	280.2	-2.7
Total Paper, exc. Newsprint	271.1	278.3	274.2	274.8	273.5	280.3	274.2	-1.8
Newsprint	307.5	315.8	299.1	306.3	305.8	309.6	301.8	-5.4
Total Paperboard	258.1	254.9	249.6	249.5	250.4	252.8	248.1	-3.7
Total Paper and Paperboard #	273.1	276.5	270.2	271.6	271.4	275.1	270.1	-3.0
Converted Products	258.8	264.4	264.7	264.5	265.0	265.3	264.8	0.2
Waste Paper	175.7	121.1	116.0	116.0	116.0	116.0	116.0	-5.6
All Commodities	293.4	299.3	302.5	303.2	304.9	305.3	302.2	1.1
Industrial Commodities	304.1	312.3	315.4	316.6	317.5	317.2	314.9	1.1

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

The paperboard grades showed varying patterns, with an 8.5% gain in containerboard production for domestic use and only a 3.3% gain in boxboard production for domestic use. Moreover, the rate of boxboard production in the first nine months of 1983, at 5.4 million tons per year, was a little below the 5.5 million tons produced in 1981, while containerboard production was a shade above its 1981 rate.

The miscellaneous grades of paperboard continue to show large gains, led by strength in production of gypsum wallboard facings, tube can and drum stock made from recycled paperboard, and panel board. The more modest gains of 3.3% were shown in the folding boxboard, 3.2% in setup boxboard and 2% in milk carton and food service board production. In all cases these figures include production for export.

Total paperboard production for export has been a major support to the paperboard market. The rate for the first nine months of 1983 was more than 3 million tons per year, 10.5% above the 1982 level and nearly 15% above its 1981 total. The table on page 3 shows that the gains were concentrated largely in output of kraft linerboard for export: the 2.2 million tons per year rate for the first nine months of 1983 was 13.3% ahead of its comparable year-ago total and 19% above the average rate for all of 1981.

Continued from Page 10

Imports, Exports and New Supply

Imports of paper and paperboard products in August 1983 showed a strong recovery from the July low, but remained well within the monthly range of imports evident in the first half of the year. The largest imported grade is, of course, newsprint; so far this year, newsprint imports were at the annual rate of 6.77 million tons per year, 2.9% above the comparable 1982 level but 2.9% below the tonnage imported in 1981. In the 1978-1981 period, imports of newsprint averaged 7.2 million tons per year. The current rate points to the greater reliance of U.S. newspaper publishers on domestic production.

Exports of paper and paperboard, as indicated earlier, are also showing strength. The Bureau of Census data presented on page 9 show exports of paper, paperboard and products in the first 8 months of 1983 up 8% from their year-ago level. The gains were concentrated entirely in the paperboard grades; exports of paper, at 791,000 tons per year, were 12% below the comparable 1982 level in this period.

With exports for September still not available, new supply figures for the third quarter of 1983 are estimates. However, the extraordinary strength in production suggests that the rate of new supply in the third quarter of 1983 was close to 70 million tons per year. The Department of Commerce reported that real GNP (Gross National Product expressed in 1972 dollars) rose at the rate of 7.9% per year from the second to third quarters of 1983. This would bring the total to an estimated 1.55 trillion 1972 dollars, a new high for this series. This, in turn, suggests that the ratio of new supply to real GNP in the third quarter of 1983 was about 44,900 tons per billion dollars of real GNP, about equal to its 1977-1979 average level.

Fibrous Raw Materials

Total production of wood pulp in the first 8 months of 1983, as shown by the table on page 5, was 3.8% above the comparable 1982 level. At 52 million tons per year, the rate was very close to the total production rate in 1981.

The production of dissolving pulp, however, showed a particularly large gain from the depressed 1982 level, rising 11% to a 1.25 million ton per year rate. However, even this gain brought the rate to only about 100,000 tons below the level reached in all of 1981.

Among the paper grades of pulp, total production was at an annual rate of 50.7 million tons per year, about 3.7% above the comparable 1982 rate and almost exactly equal to the 1981 production level. The gain was concentrated in the paper grade chemical pulps; production rose about 4.5% in the first 8 months of 1983 over its year-ago level and about 1% over the 1981 level.

Continued on Page 12

Continued from Page 11

Production of market wood pulp in the first 8 months of 1983 was nearly 9% over its comparable 1982 level; relative to 1981, the increase was 3%. Similarly, imports of paper grade chemical market pulp showed a gain of nearly 18% from 1982 to 1983, but this was still 3% below the 1981 level.

Paper grade chemical market pulp exports gained 9% over 1982 and are running at a rate 8% above that for 1981. In all three years, exports of chemical paper grade market pulp accounted for about 53% of the total production of market pulp.

Inventories of market pulp at U.S. pulp mills and paper and paperboard mills showed a pattern typical of a recovery phase of the business cycle. As of the end of August, inventories of market pulp at pulp mills were about 4% below their corresponding 1982 levels, while inventories of market pulp at paper and board mills showed an 18% gain. The inventories at U.S. pulp mills at the end of August 1983 were equivalent to 34 days of supply, compared to 40 days of supply as of the end of August 1982.

Inventories of waste paper at paper and paperboard mills declined an estimated 15% in this period, probably reflecting the strong domestic and export demand for waste paper. Waste paper consumption at paper and board mills rose an estimated 5.2% over 1982 and 2.2% over total 1981, as shown on the lower part of the table on page 5.

Sales and Earnings

The strength in paper and paperboard production evident in the third quarter of the year was reflected in an increase in sales of the paper companies. Sales usually decline from the second to third quarters of the year. This year, an analysis of data of 28 paper companies reported in the press showed sales rising by 3.2% from the second to third quarter of the year. Similarly, earnings, which also usually decline from the second to third quarters, rose by 14.9%. Thus, the margin on sales, which had been 3.2% in the first quarter, and 3.7% in the second, rose to 4.1% in the third quarter of the year.

Relative to 1982, the third quarter sales showed a gain of 14.3% while earnings were up 42.1%. Sales of these companies for the first three quarters of 1983 were up by 10.2%, while earnings rose 19.0%. Thus the margin on sales went from 3.4% in the first three quarters in 1982 to 3.6% in the first three quarters of 1983. The margin on sales for all paper and allied products companies, as reported in the Quarterly Financial Report for Manufacturing Corporations, averaged 2.4% in 1982 and 5.0% in 1981.

The companies analyzed from the press reports accounted for approximately 62% of the total value of sales of all paper and allied products companies as reported in the Quarterly Financial Report for Manufacturing Companies

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

OCTOBER 20, 1983

PRODUCTION (000 TONS)	Sept 83	Aug. 83	Sept 82	Jan - Sept 83	Jan - Sept 82	% Change 83/82
PAPER GRADES	P	R				
Newsprint	415	459	389	3849	3819	0.8
Printing & Writing	1408	1533	1319	12780	11694	9.3
Uncoated Groundwood (s)	126	127	122	1103	1078	2.3
Coated Paper (s)	469	536	433	4183	3755	11.4
Uncoated Free Sheet Paper (s)	698	754	656	6435	5872	9.6
Thin Paper (s)	26	28	26	250	246	1.6
Cotton Fiber Paper (s)	11	11	10	92	90	1.7
Bleached Bristols (s)	78	78	72	717	653	9.9
Tissue Paper	385	421	359	3551	3294	7.8
Total Pkg & Other Paper	500	514	443	4171	3968	5.1
Unbleached Kraft Packaging & Indl. Converting (s)	335	349	312	2831	2751	2.9
Other Paper *	165	165	131	1340	1217	10.1
TOTAL PAPER	2708	2926	2510	24351	22775	6.9
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1416	1393	1209	12035	11003	9.4
Unbleached Kraft Linerboard	1320	1307	1126	11213	10187	10.1
Other Unbl. Kraft Paperboard	96	87	83	822	816	0.7
Semichemical Paperboard	395	406	367	3505	3307	6.0
Bleached Paperboard	306	329	287	2902	2801	3.6
Recycled Paperboard	609	614	536	5343	4918	8.6
TOTAL PAPERBOARD	2726	2743	2399	23784	22029	8.0
TOTAL PAPER AND PAPERBOARD	5434	5669	4909	48135	44805	7.4

WOOD PULP (ALL GRADES)	Aug. 83	July 83	Aug. 82	Jan - Aug. 83	Jan - Aug. 82	% Change 83/82
Dissolving & Special Alpha	99	72	99	836	753	11.0
Bleached Sulfite	108	99	103	860	858	0.2
Unbleached Sulfite	26	21	29	208	229	-9.0
Bleached & Semi-Bl. Sulfate	1806	1699	1727	14021	13339	5.1
Unbleached Sulfate	1654	1500	1574	12814	12287	4.3
Semichemical	331	312	286	2556	2526	1.2
Groundwood and Thermomechanical	436	405	408	3354	3396	-1.2
TOTAL PULP DIVISION DATA	4460	4109	4227	34648	33386	3.8

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

October 31, 1983

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1981	1982	July	August	September		
Total Production (API).......| excluding |...	62262	59488	5117	5669	5434	64180	7.4
Total Seasonally Adjusted....|construction|...			5439	5453	5672	63831	7.5
Imports (including Products).| and wet |..E	7941e	7603b	655	721	N.A.	9198	9.0
Exports (including Products).| machine |..E	4561e	4187e	408	375	N.A.	4566	7.8
Apparent Consumption.........| grades |...	65642a	62904a	5685	5798	5972	67464c	7.8
Paper Production % Tonnage Capacity...........	92.1	87.7	82.6	94.3	90.2	91.3eh	-
Paperboard Production % Tonnage Capacity......	90.6	81.9	83.3	88.6	91.1	88.8e	-
			June	July	August		
IMPORTS.....|Including Construction and |.....	8339	8024	836	702	787	8870	9.1
EXPORTS.....| WMB Grades (excl. HPB) |.....	4641	4246	383	412	380	4605	8.0
MARKET WOOD PULP PRODUCTION - Tons (000).........	6210	5732	548	483	566	6418	8.7
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	52041	48337	4407	4105	4460	51972	3.8
WOOD PULP IMPORTS - TONS (000).................	4087	3656	357	327	350	3936	8.9
WOOD PULP EXPORTS - TONS (000).................	3678	3395	324	259	289	3548	1.6
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			June	July	August		
Wood Pulp.............|consumption for|.....	50698	48120	4326	4012	4354	50486	3.7
Waste Paper...........|construction & |.....	13875	13525	1205	1128	1205	14186	5.2
TOTAL..........| WMB grades |.....	64573	61645	5531	5140	5559	64672	4.0
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79747	79039	7188	6801	7395	85046	7.4
EMPLOYMENT (000)			July	August	September		
Paper and Allied Products..........Total......	688.5	682.0	658.8	663.7	684.3	655.5	-1.4
Pulp, Paper and Board Mills........Total.....E	267.3	257.8	253.4	254.7	255.4	253.1	-2.3
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	8.60	9.32	10.06	10.01	10.09	9.84	6.6
Pulp, Paper Mills.........................E	10.05	10.88	11.90	11.83	11.90	11.56	7.5
Paperboard Mills..........................E	10.23	11.13	12.30	12.36	12.40	12.00	9.2
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q1	1983 Q2	1983 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.72	5.97	6.02	6.30	6.05	6.19y	3.7
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			July	August	September		
|IN PULP, PAPER |...Production Workers..........	108.2	109.9	118.4	123.1	124.8	120.5	10.4
|AND BOARD MILLS|...All Employees..............	107.5	108.3	117.2	121.5	123.6	118.8	10.3
PAPER AND ALLIED PRODUCTS (Million $)			June	July	August		
Industry Shipments (Dept. of Commerce)*........	80251	78892	7126	7124	7282	83282	5.3
Pulp, Paper and Paperboard*...................	35116	33523	3045	3051	3086	35312	4.5
Inventories (End of Period) - Total Industry*.	8641	8607	8326	8334	8372	8372	-2.6
Pulp, Paper and Paperboard*...................	3224	3365	3272	3242	3216	3216	-4.8
			1982 Q4	1983 Q1	1983 Q2		
Sales (Corporations Only, FTC)..................	62699	60293	14939	15524	16500	64048	5.2
Earnings (Corporations Only, FTC)...............	3110	1460	198	441	543	1968	15.2
Depreciation (Corporations Only, FTC)...........	2267	2379	595	641	661	2604	10.2
Net Worth (Corporations Only, FTC)..............	26558	26705	26705	26995	26856	26856	-0.2
PRICE INDEXES (Bureau of Labor Stats)1967=100			July	August	September		
Pulp, Paper & Products, ex. Building Grades...	270.8	273.2	269.9	270.1	271.7	269.4	-1.8
Wood Pulp.....................................	397.1	379.1	347.5	348.2	348.4	345.7	-11.2
Waste Paper...................................	175.7	121.1	116.0	116.0	116.0	116.0	-5.6
Paper...	279.8	286.3	281.7	281.0	285.3	280.2	-2.7
Paperboard....................................	258.1	254.9	248.5	250.4	252.8	248.1	-3.7
PAPER DEMAND (INDEXED: 1967=100)			July	August	September		
Total Paper Production *......................	148.3	145.4	157.5	161.2	161.3	154.7	6.9
Paper New Supply *...........................	137.7	135.1	144.9	151.3	150.0	144.3	7.7
Total End - Use Index *......................	150.3	149.5	157.7	159.9	161.5	154.5	3.2
Production of Nondurable Goods *...(19%)..	164.7	156.1	170.2	172.1	174.2	165.6	6.0
Disposable Income (Constant $) *...(23%)..	154.3	157.8	164.2	163.8	164.5	162.1	3.0
Total Printing and Publishing *...(58%)..	144.0	144.0	151.0	154.3	156.2	147.9	2.2
Trend Factor	--------------------	--------------------	----------Not	Available------	----------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	137.1	127.6	141.5	138.8	150.3	137.7	8.0
Production for Domestic Use	132.9	122.7	136.4	133.2	145.1	132.0	7.8
Total End - Use Index *.....................	149.3	139.5	151.6	153.0	155.2	146.8	4.5
Production of Consumer Goods *...(60.49%)	147.8	142.7	155.0	156.0	158.2	150.1	5.0
Production of Equipment *...(6.62%)	151.8	139.8	140.7	142.4	145.2	137.9	-2.6
Production of Materials *...(32.89%)	151.5	133.7	147.5	149.6	151.7	142.0	5.0
Trend Factor	--------------------	--------------------	----------Not	Available------	----------	----------	----------
NEWSPRINT MARKETS			June	July	August		
Consumption by Publishers - Tons (000)........	11205	11150	947	900	933	11201	3.4
Newspaper Pub. and Printing Empl. Total(000)..	419.8	417.5	422.3	422.8	422.8	418.6	0.2
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	123182	120751	9776	8867	8483	119983	6.8
WHOLESALERS SALES AND INVENTORIES (Million $)(j)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	23603	22776	2056	1865	2103	23609	3.8
Inventories (End of Period)	1971	1885	2069	2070	2124	2124	4.3
FIBRE BOX DATA (Fibre Box Association)			July	August	September		
Fibre Box Shipments (Million square feet)......	246152	235185	19567	22652	22317	251137	6.2
Container'bd Inventory at Mill & Plant(000Tons)	2729	2584	2486	2421	2338	2338	-2.3
RETAIL TRADE (Million $)							
Total Retail Sales *.........................	1047118	1074467	99521	97955	99480	1155659	8.5
Nondurable Goods Stores Sales *..............	731201	753568	66982	67160	67901	788425	5.2
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	150.9	138.6	149.6	151.4	153.7	144.8	3.6
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	293.4	299.3	303.2	304.9	305.3	302.2	1.1
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	272.4	289.1	299.3	300.3	301.8	296.9	3.2
			June	July	August		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	331.7	344.8	353.0	358.0	363.7	363.7	8.6
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1983 Q1	1983 Q2	1983 Q3		
G.N.P. or Expenditure - Current $.............	2954.1	3073.0	3171.5	3272.0	3363.3	3268.9	6.8
G.N.P. or Expenditure - 1972 $................	1513.8	1485.4	1490.1	1525.1	1554.4	1523.2	2.4

lb/capita

Pap&Papbd	Othr	Totl	Popul(mil)
.a - 572 + 21 =		593	229.8
.b - 543 + 15 =		558	232.0
.c - 578 + 18 =		586	233.6

.E - Last month estimated by API
.e - estimated by API

a - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-9%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

12/2/83
Aa500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 61 - No. 11 NOVEMBER, 1983

New High in Paper and Paperboard Production

The production of paper and paperboard in October 1983 rose to an estimated 5.8 million tons, 12% above the October 1982 level and a new monthly high. Paper production, at 2.94 million tons in October was 10% above its year-ago level; paperboard production, at 2.89 million tons in October was 15% over its year-ago level. Both established new monthly highs.

The October trend level of production (the average of the September and October seasonally adjusted annual rates) was at a record 68.2 million tons per year, with paper at 34.3 million tons and paperboard 33.9 million tons per year. If these rates hold for the remainder of the year, the 1983 total for paper and paperboard production would be in the neighborhood of 64.6 million tons, with paper at 32.8 million tons and paperboard 31.8 million tons. This would put paper 6% above the previous high established in 1981, and 8% above the 1982 recession level. Paperboard would be 2% above its 1981 high, and 9% above 1982.

The stronger upward thrust in paper production largely reflects the strength in printing and writing grades that has been evident during the past three years. The 1983 level of production of these grades is pointing to 17.3 million tons, 10% over the 1981 high.

The gains in printing and writing paper production reflect strength in virtually all major markets and grades. The table on page 3 shows gains over the 1981-1982 levels well in excess of 10% in the coated paper and uncoated free sheet paper grades. These are supported by the 10% plus gains in shipments to magazine publishers, in bond papers (used largely for computer printout papers and other business forms), in office reprographics (mainly office copy paper) and in shipments to commercial printing.

Continued on Page 2

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Continued from Page 1

These increases are well above those of the real gross national product and even exceed the gains in industrial production. These large gains bring up the question as to how much is being added to inventories. Although some increase in inventory has obviously taken place, if only to meet the higher levels of white paper consumption, there are no indications that the accumulation has been large. We conclude that a major part of the higher production of printing/writing papers is going directly into consumption by various end-users.

Tissue paper production is also showing significant growth, with the 1983 production total pointing to 4.8 million tons, or 8% above 1982. The 1983 production figure compares to the previous high of 4.5 million tons established in 1979 and again in 1981. Here too the question of possible inventory accumulation can be raised, but there is little evidence of significant increases in inventories.

The packaging and industrial papers, which in the past have shown the slowest growth among the various paper grades, have also shared in the expansion of paper demand, but at more modest rates. Production in the first ten months of the year was 5.5% above the 1982 level and, on a seasonally adjusted basis, about equal to the 1981 level. If the September-October rates of production hold for the remainder of the year, production of these grades will be at 5.55 million tons, which would equal the 1981 total. However, this would still be below the highs reached in the 1977-1979 period.

The sharp decline in industrial production in 1982, contracted the demand for paperboard even more sharply than paper. Similarly, the 1983 gains in production are increasing paperboard production at a more rapid rate than most paper grades. Total paperboard production in the first ten months of 1983, as shown in the table on page 3, was 8.7% above its year-ago level, compared to the 7.5% increase in paper production.

In percentage terms, the largest gains in production are evident in the non-packaging grades. Gypsum wallboard facings, for example, showed a 21% gain over the year-earlier level, during the first ten months of the year, reflecting the large increase in housing activity. The rate of production in the first ten months of the year was about one million tons per year, which was close to the highs reached in the 1977-1979 period. Panelboard

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

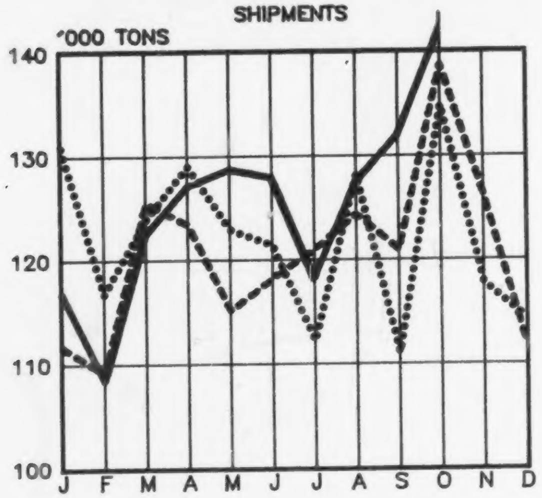
	YEAR 81	YEAR 82	JULY 83	AUG. 83	SEPT 83	OCT. 83	Annual Rate Y-T-D 83	% Change from same Period Last Year
					R	P		
PAPER								
Newsprint - Production	5239	5042	417	458	415	448	5156	0.7
- Shipments	5220	4888	436	457	413	448	5112	2.0
Printing & Writing	15722	15643	1337	1543	1482	1564	17288	10.2
Groundwood Paper - Shipments	1463	1459	118	128	132	142	1502	2.8
- New Orders	1449	1469	135	183	131	150	1577	8.2
- Unfilled Orders	100	91	114	145	151	158	158	58.4
Coated Paper - Shipments	4840	5032	453	536	485	527	5671	12.5
- New Orders	4853	4898	499	556	450	510	5838	18.8
- Unfilled Orders	380	325	524	528	492	477	477	50.5
Unctd Free Sheet - Shipments	7898	7847	652	758	722	767	8676	10.3
- New Orders	7735	7820	755	782	720	725	8848	14.3
- Unfilled Orders	370	321	598	608	610	564	564	78.9
Thin Paper - Shipments	336	323	24	28	26	29	334	1.6
Cotton Fiber Paper - Shipments	125	118	9	11	11	14	127	6.0
Bleached Bristols - Production	960	865	81	82	86	86	980	12.8
Tissue Paper - Production	4518	4438	385	418	397	420	4777	8.0
Total Packaging & Other Paper *	5552	5300	415	514	492	507	5605	5.5
Unbl. Kraft Paper - Shipments	3880	3688	287	349	327	338	3794	3.0
Other Paper - Production *	1672	1612	128	165	165	169	1811	11.3
TOTAL PAPER-Production-UnadJ.	31030	30422	2553	2834	2766	2939	32827	7.5
-Production-S.A.			2748	2821	2875	2839	32850	7.5
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	24231	22589	1994	2129	2124	2210	24790	8.4
Unbl. Kraft Linerboard (1)	14540	13494	1194	1307	1324	1344	15072	10.5
Production for Export	1887	1931	185	191	199	157	2207	12.2
Other Unbl. Kraft Paperboard	1062	1040	107	87	96	96	1101	1.7
Semichemical Paperboard	4719	4389	386	406	395	423	4713	6.5
Production for Export	155	185	20	21	17	13	211	11.6
Solid Bleached Paperboard	3810	3665	307	329	309	348	3904	5.0
Production for Export	557	525	35	37	37	44	524	-1.6
Recycled Paperboard	7001	6476	569	614	611	678	7227	9.7
Production for Export	24	13	2	1	1	1	23	82.0
TOTAL PAPERBOARD-Prod.-UnadJ.	31232	29065	2563	2743	2735	2888	32017	8.7
- Containerboard Prod.(Dom. Use)	19040	17508	1525	1668	1659	1772	19281	9.1
- Boxboard Prod.(Dom. Use) (2)	5544	5150	427	452	448	498	5474	4.5
- All Other P'bd Prod.(D.U.) (2)	4026	3753	368	373	374	403	4297	12.0
- Total Paperbd Prod. for Export	2622	2654	243	250	254	218	2965	9.8
TOTAL PAPERBOARD PROD. - S.A.			2690	2640	2886	2780	31834	8.7
TOTAL PAPER AND PAPERBOARD Production - actual	62262	59488	5117	5676	5501	5827	64844	8.1
Production - S.A.			5438	5461	5742	5619	64283	8.1

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

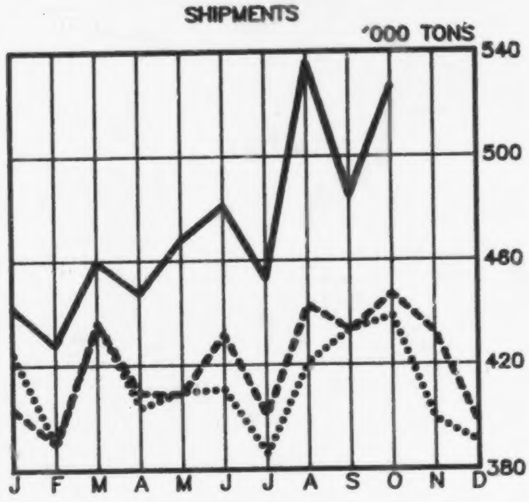
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



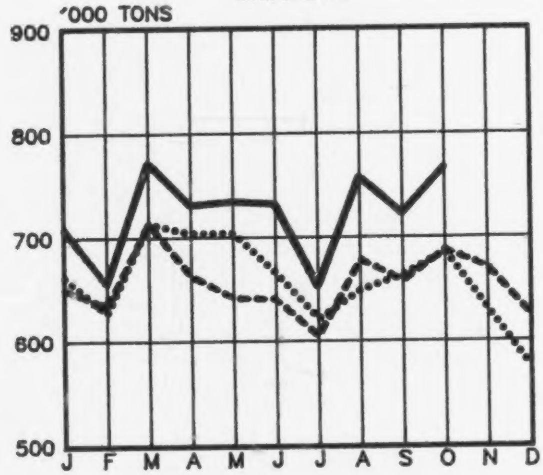
COATED PAPER

SHIPMENTS



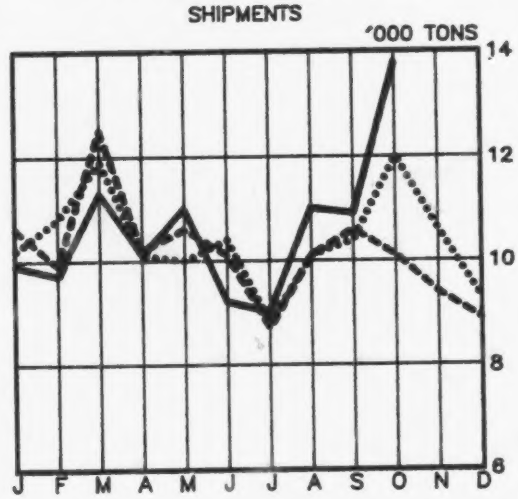
UNCOATED FREE SHEET PAPERS

SHIPMENTS



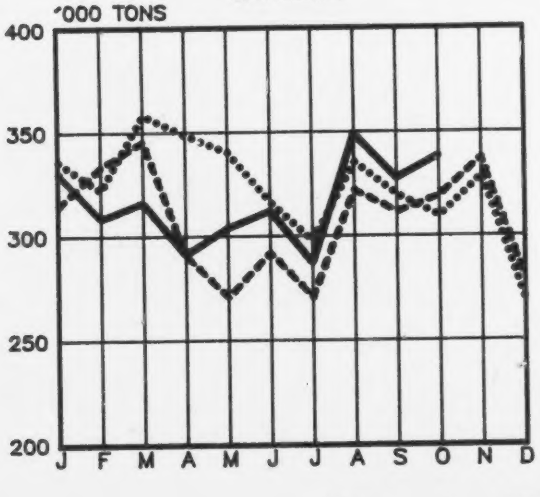
COTTON FIBER PAPER

SHIPMENTS



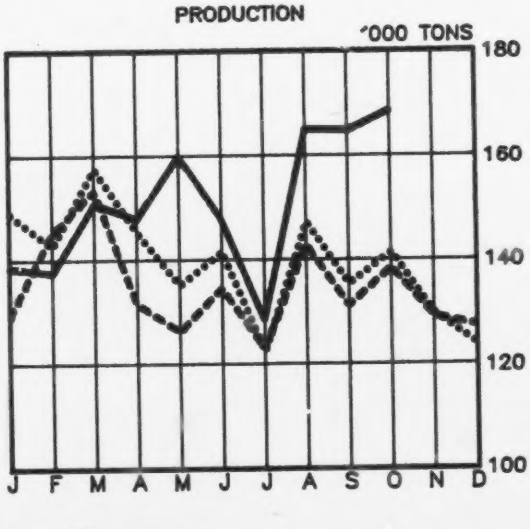
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1981 ········ 1982 ▬ ▬ ▬ 1983 ——

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 81	YEAR 82	JUNE 83	JULY 83	AUG. 83	SEPT 83	Annual Rate Y-T-D 83	% Change from same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	52041	49333	4405	4156	4483	4418	52157	4.7
- Imports	4087	3656	357	327	350	332	3941	8.9
- Exports	3678	3395	324	259	289	329	3592	2.6
- New Supply	52450	49594	4438	4225	4544	4422	52507	5.1
Dissolving Pulp - Production	1353	1093	123	72	99	91	1236	11.4
- Imports	249	186	13	21	10	11	198	6.8
- Exports	784	631	50	31	60	30	582	-8.0
- New Supply	818	648	87	62	50	72	852	28.6
Paper Grades Chemical Pulp - Production	41445	39478	3533	3374	3624	3581	42087	5.6
- Imports	3655	3302	328	291	322	306	3572	9.2
- Exports	2870	2736	268	224	227	294	2964	4.2
- New Supply	42230	40043	3592	3441	3719	3593	42706	6.0
Groundwood and Thermo-Mech. - Production	5320	5063	413	401	432	428	5000	-1.9
- Imports	183	167	15	15	17	15	172	5.7
- Exports	24	27	5	3	2	4	46	82.3
- New Supply	5478	5203	423	412	447	439	5126	-2.1
Semi-Chemical - Production	3924	3700	335	309	328	318	3824	1.4
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	3924	3700	335	309	328	318	3824	1.4
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6210	5732	548	493	566	533	6414	10.1
- Imports	2924	2443	263	233	227	218	2794	17.1
- Exports	3352	3143	321	268	295	281	3446	7.0
- New Supply	5782	5032	490	458	499	470	5763	15.4
Dissolving Pulp - Production	1352	1090	123	72	99	91	1236	11.7
- Imports	241	194	12	22	15	13	203	8.1
- Exports	787	675	85	45	52	47	679	-1.9
- New Supply	806	609	50	49	62	58	761	26.2
Paper Grades Chemical Pulp - Production	4857	4643	423	420	466	440	5167	9.4
- Imports	2634	2202	249	209	210	201	2560	18.8
- Exports	2555	2468	236	223	243	234	2767	9.4
- New Supply	4936	4376	436	406	433	408	4960	14.1
Groundwood Pulp and All Other - Production	2	1	1	1	1	1	12	8700.0
- Imports	49	46	2	2	3	4	31	-29.4
- Exports	10	0	0	0	0	0	0	-50.0
- New Supply	40	46	4	3	4	5	42	-2.6

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

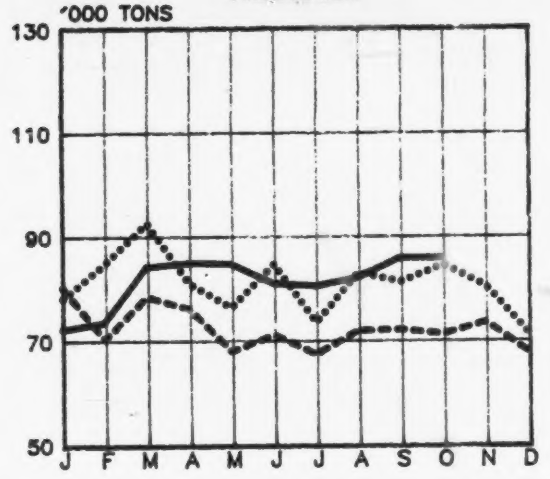
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	64573	61645	5529	5187	5580	5535	64931	4.7
Total Wood Pulp	50698	48120	4324	4059	4375	4347	50738	4.5
Waste Paper	13875	13525	1205	1128	1205	1188	14193	5.4
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	188	177	201	209	212	164	164	-12.4
Market Pulp at Pulp Mills	393	437	425	452	468	442	442	-3.4
Mkt Pulp at Ppr. & Bd. Mills *	454	492	515	499	489	534	534	27.1
Waste Paper at Paper &Bd. Mills	1211	1017	856	854	853	862	862	-14.1
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	33	37	30	33	34	31	31	-18.4

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

* - Census data prior to 1982; P - Preliminary; R - Revised; (O) - Indicates zero to five-hundred short tons

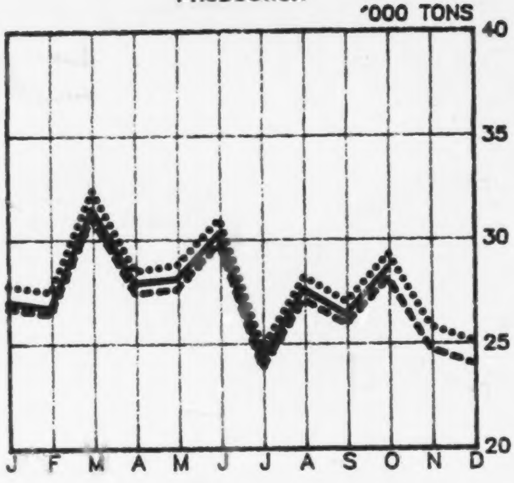
BLEACHED BRISTOLS

PRODUCTION



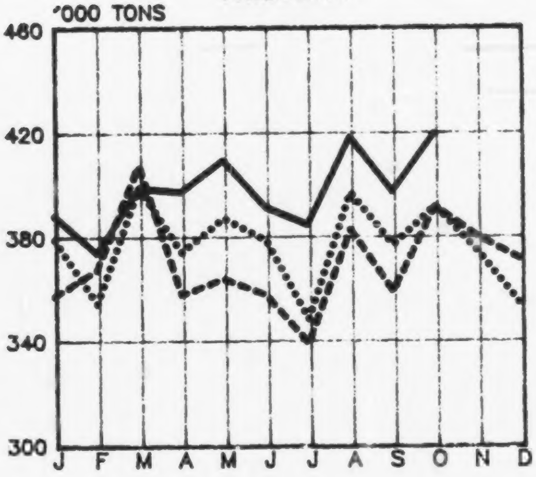
THIN PAPER

PRODUCTION



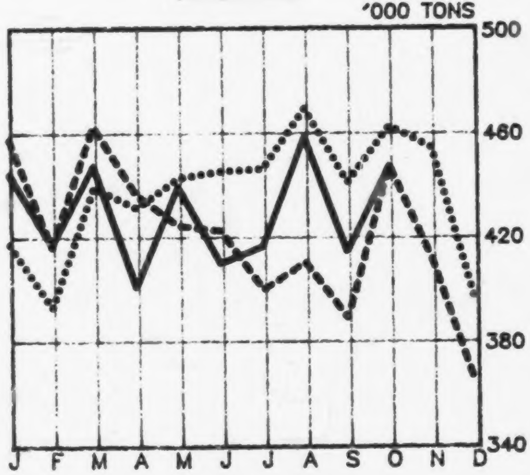
TISSUE PAPER

PRODUCTION



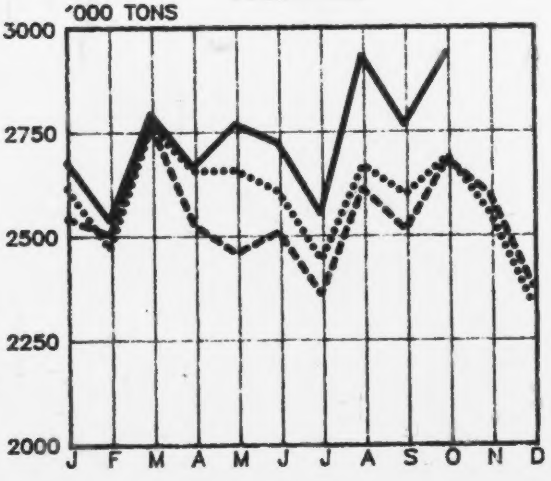
NEWSPRINT

PRODUCTION



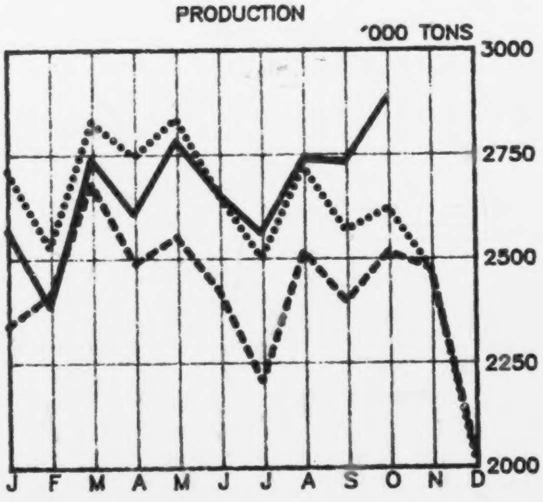
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1981 ········ 1982 ━ ━ ━ ━ 1983 ━━━━━

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Feet) Cords)

		YEAR 81	YEAR 82	JUNE 83	JULY 83	AUG. 83	SEPT 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78547	78519	7154	6821	7445	7286	83885	6.9
	- Total Consumpt.	79747	79039	7188	6801	7385	7203	85200	7.6
	- Residues *	30590	31152	2846	2844	2784	2846	32583	5.9
	- Inventories	6045	5426	4763	4952	5177	5051	5051	-2.2
So. Atlantic	- Total Receipts	24681	23769	2164	2012	2219	2240	25627	9.0
	- Total Consumpt	24815	23725	2115	1983	2198	2250	25849	9.5
	- Residues *	8770	8273	655	621	686	722	7861	-3.0
	- Inventories	1051	1165	1028	1090	1143	1139	1139	13.8
Northeast	- Total Receipts	7803	7283	597	532	642	588	6848	-7.1
	- Total Consumpt	7712	7221	607	550	629	557	7159	-1.9
	- Residues *	1362	1452	107	59	96	103	1147	-18.2
	- Inventories	635	652	439	443	489	504	504	-16.7
South Central	- Total Receipts	27744	26510	2448	2420	2633	2621	28204	10.0
	- Total Consumpt	27687	27153	2484	2366	2527	2486	29107	6.1
	- Residues *	8923	8616	806	771	800	813	9256	8.8
	- Inventories	1825	1346	1203	1259	1308	1420	1420	6.3
North Central	- Total Receipts	5650	5601	535	514	523	524	6240	13.1
	- Total Consumpt	5708	5706	541	499	522	514	6327	11.2
	- Residues *	1439	1517	150	140	147	151	1800	27.7
	- Inventories	1106	925	797	805	833	851	851	1.1
West	- Total Receipts	13669	15358	1410	1343	1428	1313	15975	3.1
	- Total Consumpt	13825	15234	1441	1403	1519	1396	16759	10.5
	- Residues *	10096	11294	1128	1053	1055	1057	12519	10.3
	- Inventories	1428	1338	1296	1355	1424	1137	1137	-17.5

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

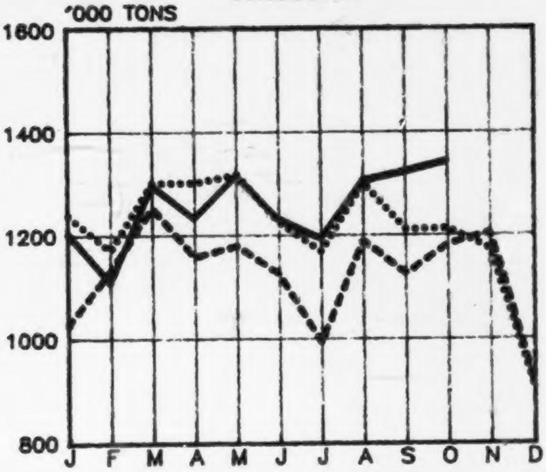
IMPORTS FROM CANADA

	YEAR 82 Tons	YEAR 82 $000	AUG. 83 Tons	AUG. 83 $000	SEPT 83 Tons	SEPT 83 $000	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	87043	4711	11218	499	12461	565	107120	15.2
Pulpwood Chips	1678793	51374	166118	4001	208761	5082	2021107	15.9
Wood Pulp, Total	3364194	1386688	344753	123999	326653	118465	3635565	7.8
Waste Fibrous Materials, Total	125749	23299	15425	2517	12124	1872	156461	20.2
Paper, Board & Products, Total	7707948	3272224	712442	293758	673784	280011	8106886	6.4
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	7665489	3201221	707895	285649	668735	270934	8055707	6.3
Paper Paperboard & Products	7327112	3192595	671779	284934	630676	270420	7650705	5.7
Paper & Paperboard, Only	7284663	3121592	667231	276825	625626	261342	7599527	5.6
Paper, Total	7171243	3093475	655950	274038	608883	257040	7446006	4.9
Newsprint	6484605	2730256	577557	233875	537352	219567	6679180	3.6
Printing, Writing & Rel. Pap.	612760	310154	69993	35419	60343	31010	673626	17.7
Pack. & Ind. Conv. Paper	66300	46060	7177	3777	9772	5168	79910	18.3
Special Industrial Paper	1899	3123	181	306	375	609	2841	60.9
Tissue Paper	5680	3882	1041	660	1041	887	10451	78.5
Paperboard, Total	113420	28117	11281	2788	16743	4303	153518	52.3
Convtd Paper&Paperbd Products	42449	71003	4547	8109	5049	9077	51179	21.0
Wet Machine Board	1302	737	180	119	196	127	3071	169.1
Construction Paper & Board	379533	78892	40483	8705	42913	9464	453109	20.5

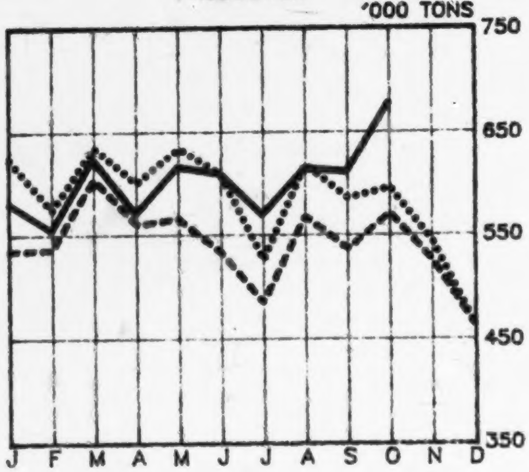
EXPORTS TO CANADA

	YEAR 82 Tons	YEAR 82 $000	AUG. 83 Tons	AUG. 83 $000	SEPT 83 Tons	SEPT 83 $000	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	107700	7263	4091	283	9637	700	61841	-44.8
Pulpwood Chips	27650	1500	2138	88	2355	109	37797	53.7
Wood Pulp, Total	116067	54691	9187	4152	10321	4657	132807	16.5
Cotton Pulp & Other Pulp	6790	4152	567	247	676	426	9024	43.7
Waste Paper	271395	32555	33198	3800	30248	3567	340471	33.9
Paper, Board & Products, Total	583206	442437	57770	41904	56908	41401	654206	24.4
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	383566	275107	37827	26783	37869	27333	450908	23.6
Paper, Paperboard & Products	561355	433689	55155	40880	54420	40368	621654	23.4
Paper & Paperboard, Only	361714	266359	35212	25859	35381	26300	418356	22.2
Paper, Total	186370	185357	18709	18132	19226	18680	230758	26.4
Newsprint	3037	2671	315	305	587	527	4329	49.4
Printing, Writing & Rel. Pap.	113443	95899	10805	9074	10835	8945	123711	14.0
Pack. & Ind. Conv. Paper	20289	13615	3128	1914	2788	1839	32207	67.7
Special Industrial Paper	47736	70111	4177	6571	4486	7311	66483	37.3
Tissue	3864	3062	284	268	532	259	4028	15.7
Paperboard, Total	173345	81001	16503	7727	16156	7620	187597	17.3
Convtd Paper&Paperbd Products	199840	167330	19944	15121	19039	14068	203298	28.0
Wet Machine Board	4365	2537	243	144	306	199	5521	14.2
Construction Pap & Bd. E	17487	8212	2372	781	2181	833	27031	54.7

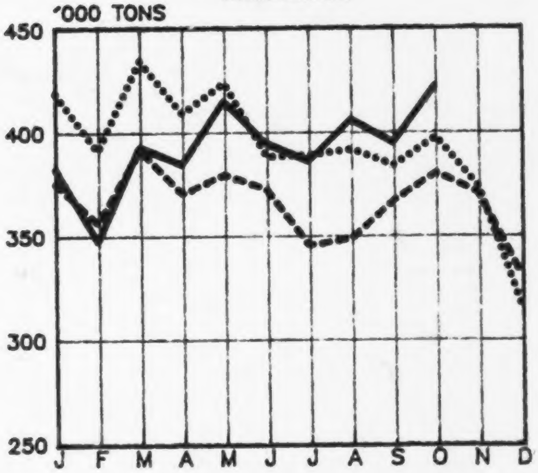
SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data


UNBLEACHED KRAFT LINERBOARD

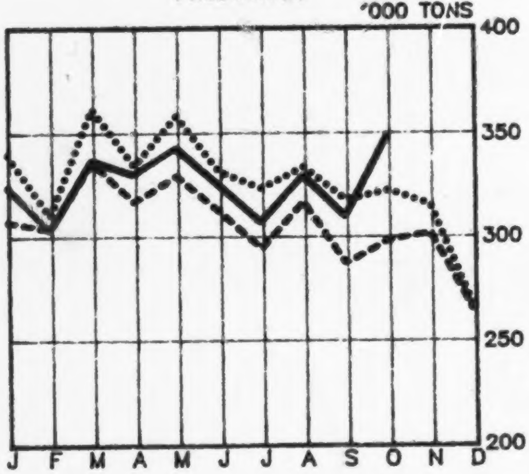
PRODUCTION


RECYCLED PAPERBOARD

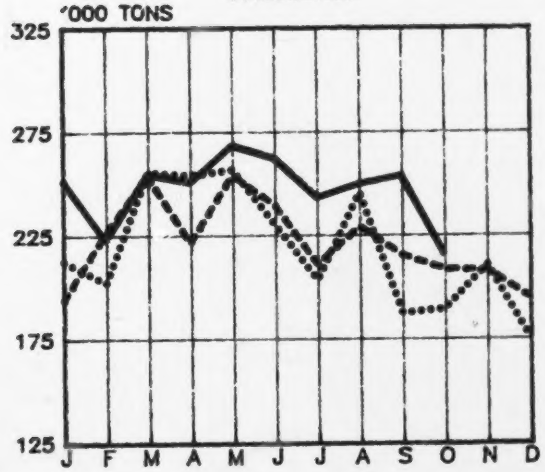
PRODUCTION


SEMICHEMICAL PAPERBOARD

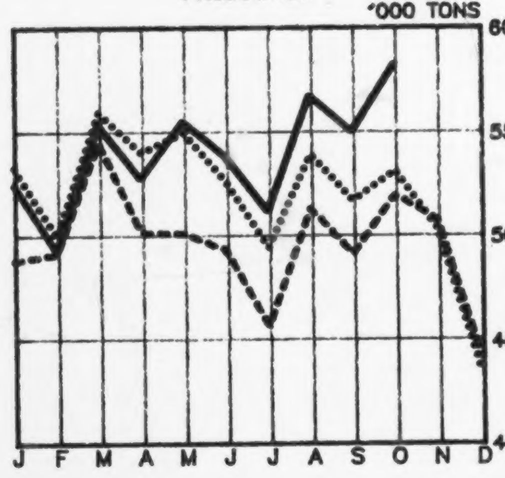
PRODUCTION


SOLID BLEACHED PAPERBOARD

PRODUCTION


PAPERBOARD FOR EXPORT

PRODUCTION


TOTAL PAPER AND PAPERBOARD

PRODUCTION

1981 ········ 1982 ━ ━ ━ ━ 1983 ━━━━━━

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 82 Tons	82 $000	AUG. 83 Tons	83 $000	SEPT 83 Tons	83 $000	(1) Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood Roundwood (cords)	87043	4711	11218	489	12461	585	107120	15.2
Pulpwood Chips	1682414	51538	166135	4005	208773	5084	2028745	15.9
Total All Imports	11824303	5208303	1132800	475806	1086374	458807	12803723	9.4
Wood Pulp Total	3655786	1493241	349829	125748	332082	120222	3941359	8.8
Waste Paper	74332	8450	11035	1277	8115	807	100357	36.0
Other Fibrous Materials	70176	24212	5286	1809	4717	1654	68324	-8.3
Paper Board & Products Total	8024009	3682401	766950	346871	741460	337123	8685683	8.5
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	7917418	3344205	753640	307661	728283	300990	8554587	8.2
Paper Prbd & Prds.ex Cnst&WMB	7602651	3594201	720502	336517	694727	326601	8191543	8.9
Paper & Paperboard Only	7496060	3256005	707193	297306	681561	290468	8050828	8.5
Paper Total	7381252	3226307	694986	293925	664202	285749	7887479	7.8
Newsprint	6530676	2748652	584131	235863	543241	222273	6746044	3.7
Printing & Writing	764095	408551	101009	51815	107875	55031	1026021	41.8
Uncoated Groundwood	514882	248196	63765	29313	72486	32851	676213	39.7
Uncoated Book	142626	80105	13690	7830	12236	7496	140810	-0.2
Coated Print.& Impres. Pap	69010	46763	15314	9472	13975	8618	131633	108.2
Bristols	391	416	20	37	47	52	350	7.1
Writing and Similar Paper	25893	19225	7108	4138	7694	4552	62643	156.8
Thin (except Cigarette)	11293	13846	1111	1125	1436	1362	14273	33.1
Total Pkg & Other Paper	79653	63863	8726	5379	12002	7714	104203	30.7
Unbleached Kraft Paper	23078	10749	3868	1640	5731	2197	40759	87.5
Other Pkg. & Indust. Paper	56575	53114	4857	3740	6271	5517	63444	9.4
Tissue	6828	5241	1120	768	1085	732	11210	59.3
Paperboard, Total	114808	29698	12207	3331	17359	4719	163349	59.8
Test or Containerboard	35983	8459	3622	972	3927	1123	48222	63.6
Semi-Chemical Corrugating	47295	9679	4854	1110	7933	1640	64516	49.7
Other Paperboard	31531	11560	3631	1299	5499	1955	50611	70.9
Convtd Paper&Paperbd Products	106591	338196	13310	39210	13167	36133	141115	31.3
Paper Products, Total	92059	307245	11228	34639	11113	31190	114661	23.0
Paperboard Products, Total	14532	30951	2082	4571	2054	4943	26454	85.6
Wet machine Board	1842	1239	259	229	231	159	3484	98.3
Construction Paper & Board	419515	86961	46189	10126	46501	10364	500255	20.4
Notes								
Other: No Weight Avail. ($000)		135346		15154		15187	143018	5.1
Total Imports Incl. Other($000)		5344649		490959		474894	5438225	+1.8

EXPORTS

	YEAR 82 Tons	82 $000	AUG. 83 Tons	83 $000	SEPT 83 Tons	83 $000	(1)	
Pulpwood, Roundwood (cords)	111692	7475	4091	283	9837	700	62551	-46.7
Pulpwood Chips	2860133	231140	266382	15448	167639	11138	2677333	-10.2
Total All Exports	9872289	4315138	811262	354338	848555	360249	10724582	6.8
Wood Pulp, Total	3394648	1414558	288798	113465	328512	118024	3581684	2.6
Cotton Pulp and Other Pulp	104580	72327	5576	4143	11650	6864	98947	-7.7
Waste and Old Paper	2127050	238934	236526	28405	221568	26908	2423524	13.4
Paper, Board & Products, Total	4246041	2588319	380362	208325	386825	206453	4609447	7.4
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	3670413	1754352	330782	142823	335990	140517	4036781	7.5
Paper, Prbd & Prod ex Cnst&WMB	4187119	2558943	374687	205809	382069	204221	4542205	7.3
Paper & Paperboard, Only	3611491	1723977	325117	140308	331235	138285	3969538	7.4
Paper, Total	840445	679069	59608	47827	59370	47869	782011	-12.5
Newsprint	307657	142864	22453	8094	24322	10522	284585	-8.7
Printing & Writing	246617	239135	16505	18503	16539	18441	199741	-22.3
Uncoated Groundwood	55816	48430	2847	2783	2527	2404	36813	-42.2
Clay Coated Paper	81373	65485	6446	4875	7419	5806	76420	-5.4
Uncoated Free Sheet	70599	75451	4730	5825	4663	5643	59801	-17.5
Other Printing & Writing	38729	49769	2482	3020	1931	2588	26707	-33.5
Total Pkg. & Other Paper	262861	271556	19034	20479	17376	19888	271081	-4.9
Unbleached Kraft	89068	38003	8226	2803	7446	3090	116375	25.8
Other Pkg. & Indust. Paper	173783	233553	10808	17576	9930	16799	154716	-10.6
Tissue	23310	25415	1616	1751	1133	1038	16584	-33.1
Paperboard, Total	2771046	1044808	265509	92481	271865	90385	3187527	13.7
Solid Wood Pulp	2612568	970814	247059	84252	261128	85232	3027806	14.3
Total Linerboard	1886193	542304	190375	49431	210848	55058	2289500	18.8
Bleached Kraft Linerboard	67595	26628	17909	7358	19861	7454	144843	133.8
Unbleached Kraft Linerbd	1818598	515677	172466	42073	190987	47605	2144658	18.0
Other Unbleached Kraft	139219	60780	8122	3328	10462	4522	108835	-26.8
Other Bleached Kraft	525733	349815	45404	30150	37652	25012	553487	3.9
Semi-Chemical Corrugating	61422	18116	5159	1342	2184	839	78274	29.3
Recycled Paperboard	158478	74094	18450	8229	10738	5163	159821	4.8
Convtd Paper&Paperbd Products	575628	834966	49581	65502	50835	65836	572888	6.3
Paper Products, Total	315805	591163	25218	48363	27790	46869	309140	-3.1
Paperboard Products, Total	259823	243804	24363	18139	23045	18987	263527	16.9
Wet Machine Board	11088	5939	580	362	504	334	11653	9.2
Construction Paper & Board E	47833	24437	5075	2153	4251	1898	55380	14.0
Notes								
Other: No Weight Avail. ($000)		8990		1013		753	7760	-18.7
Total Exports Incl. Other($000)		4324128		355352		361002	4175083	-3.4

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1967 = 100

	81	82	JULY	AUG.	SEPT	OCT.	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	270.8	273.2	269.9	270.1	271.7	273.0	269.8	-1.6
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	272.4	275.9	272.5	272.7	274.3	275.7	272.4	-1.6
Total Wood Pulp	397.1	379.1	347.5	348.2	348.4	348.6	345.9	-10.3
Total Paper	279.8	286.3	281.7	281.0	285.3	286.6	280.8	-2.4
Total Paper, exc. Newsprint	271.1	278.3	274.8	273.5	280.3	282.6	275.0	-1.4
Newsprint	307.5	315.8	306.3	305.8	309.6	309.6	302.6	-5.1
Total Paperboard	258.1	254.9	249.5	250.4	252.8	255.5	248.8	-3.1
Total Paper and Paperboard #	273.1	276.5	271.6	271.4	275.1	276.8	270.8	-2.6
Converted Products	258.8	264.4	264.5	265.0	265.3	266.5	264.9	0.2
Waste Paper	175.7	121.1	116.0	116.0	116.0	116.0	116.0	-5.0
All Commodities	293.4	299.3	303.2	304.9	305.3	306.3	302.6	1.2
Industrial Commodities	304.1	312.3	316.6	317.5	317.2	318.7	315.3	1.1

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor   # Computed by API

Continued from Page 2

production showed a remarkable 39% gain. Panelboard is used largely in automobiles and mobile homes; both these markets are showing strong increases over year-ago levels.

Among the major packaging grades, the strongest increase has been in containerboard production. Containerboard production for domestic use was up 9.1%, reflecting a 10.5% increase in kraft linerboard and a 6.5% increase in the production of semichemical paperboard. While recycled linerboard is running slightly below year-ago levels, recycled corrugating medium is up about 14%. These gains in containerboard production for domestic use compare to the increases in shipments of fiber boxes. The Fiber Box Association showed January-October 1983 shipments up 6.8%, with the 1983 total pointing to 253 billion square feet, compared to the record high of 251 billion square feet in 1979.

Boxboard production for domestic use surged in October, bringing the year-to-date gain to 4.5% over the comparable year-ago total. This compares to the 3.3% gain registered in the first nine months of 1983. Although the production of these grades in 1982 was fairly low, the 1983 gains are nonetheless startling. For example, clay coated folding boxboard in October 1983 was 19% above its year-ago level, while clay coated recycled paperboard showed a 22% gain. For the ten months as a whole, the solid bleached grades

Continued on Page 11

Continued from Page 10

were up 6%, while the recycled grades showed a 4% increase. Even set-up boxboard, which is normally a slow growth grade, gained 5% in the first ten months of 1983 relative to its corresponding 1982 total, with the October 1983 rate 24% over October 1982. Among the other bleached board grades, the strongest market has been cup stock, up 13% in the first ten months of 1983.

Production of total recycled paperboard, reflecting the strength in non-packaging uses as well as in the major packaging grades, is pointing to a 7.2 million-ton total, which would be the highest total since 1978-1979, when production was in the neighborhood of 7.5 million tons per year. Tube, can and drum stock made from recycled paperboard is showing a 16.7% increase over its year-ago total, with the 1983 level moving to about one million tons. This would be a record and 10% over the previous highs established in 1973 and again in 1979.

Production of paperboard for export has also been remarkably strong. At 2.2 million tons per year, production of kraft linerboard for export in the first ten months of 1983 was 12% over the 1982 level and second only to the 1980 high of 2.4 million tons. The 1982 total of 1.9 million tons was the second highest total.

Fibrous Materials

Production of chemical paper grade market pulp in the first ten months of 1983, at about 5.2 million tons per year, was 10.5% above its year-ago total. Shipments rose by 12.4%, with shipments to the domestic market up 15%, and for export up 10%. Exports to Western Europe, the largest market for U.S. pulp rose by 6%. However, exports from the Scancinavian country to this market showed a much stronger gain, largely reflecting the effects of the high value of the dollar relative to the Scandinavian currencies. U.S. exports to Japan, by way of contrast, showed a 34% gain; exports to other markets rose 8%.

Production of dissolving grades of wood pulp is showing a strong recovery, with the January-September rate some 11% over the year-ago level. However, the 1982 decline in dissolving pulp production was so strong that the 1983 rate is still some 8.6% below that of 1981.

The strength in dissolving pulp production in 1983 largely reflects increases in shipments to the domestic market. Data available for the first ten months of the year show shipments to the U.S. market up 21% from the year-ago level, while exports are just about matching their 1982 rate.

Continued on Page 12

Continued from Page 11

Import/Export Summary

Imports of paper and paperboard in September 1983, at 682,000 tons, were well within the range established in earlier months of the year; aside from February, when imports dropped to 514,000 tons, imports ranged from a low of 642,000 to a high of 779,000 tons - the latter reached in June.

Newsprint, of course, forms the major part of the import total; at 6.7 million tons per year, January-September imports of newsprint were 3.7% ahead of their year-ago level. This compares to the 5.1 million-ton per year domestic production rate, which was less than 1% ahead of its 1982 level. Newsprint exports, at 295,000 tons per year, were down nearly 10%, so that the total newsprint new supply in the first nine months of 1983 was 2.8% over its comparable year-ago level, a little above the gain in real GNP.

The strength in demand for printing/writing papers was also reflected in imports of these grades. In the first nine months of 1983 imports of printing/writing papers were above the million-ton per year rate, 42% over the comparable year-ago rate. The major tonnage gains were in the uncoated groundwood grades, which showed a 40% increase. With production of these grades up 3% and exports down 42%, new supply - at 2.1 million tons per year - was 12% over its comparable 1982 level. Thus the increase in demand for groundwood papers was in line with the increase in demand for the other printing/writing papers. In the case of groundwood papers, however, imports accounted for over 30% of the total new supply. Imports accounted for only a very minor part of the total new supply of the other printing/writing paper grades.

Capacity

The American Paper Institute has just released the 1983 edition of its annual Capacity Survey. Reports have already been mailed to its members; the subscription price for non-members is $225.00.

The survey shows that total paper and paperboard capacity will increase at an average rate of 1.5% per year in the 1984-1986 period, compared to 2.1% in the 1968-1983 period. Among the paper grades, the major gains will be in printing/writing and tissue grades. The paperboard grades of unbleached kraft and solid bleached kraft paperboard will show the largest increases.

Wood pulp capacity in the 1984-1986 period is expected to grow 1.4% per year, compared to 2.2% per year in the preceeding 16 years. The sulphate and mechanical pulp grades are expected to increase at an average rate of 1.7% per year during the 1984-1986 period.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

NOV. 21, 1983

	PRODUCTION (000 TONS)					
	Oct. 83	Sept 83	Oct. 82	Jan - Oct. 83	Jan - Oct. 82	% Change 83/82
PAPER GRADES	P	R				
Newsprint	448	415	448	4297	4267	0.7
Printing & Writing	1564	1462	1380	14408	13074	10.2
Uncoated Groundwood (s)	142	132	140	1251	1218	2.8
Coated Paper (s)	527	485	447	4726	4202	12.5
Uncoated Free Sheet Paper (s)	767	722	684	7230	6557	10.3
Thin Paper (s)	29	26	28	278	274	1.6
Cotton Fiber Paper (s)	14	11	10	106	100	6.0
Bleached Bristols (s)	86	86	71	816	724	12.8
Tissue Paper	420	397	392	3981	3686	8.0
Total Pkg & Other Paper	507	492	458	4670	4426	5.5
Unbleached Kraft Packaging & Indl. Converting (s)	338	327	319	3161	3070	3.0
Other Paper *	169	165	139	1509	1356	11.3
TOTAL PAPER	2939	2766	2677	27356	25453	7.5
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1439	1420	1269	13478	12272	9.8
Unbleached Kraft Linerboard	1344	1324	1183	12560	11370	10.5
Other Unbl. Kraft Paperboard	96	96	86	918	903	1.7
Semichemical Paperboard	423	395	381	3927	3688	6.5
Bleached Paperboard	348	309	298	3253	3099	5.0
Recycled Paperboard	678	611	570	6023	5489	9.7
TOTAL PAPERBOARD	2888	2735	2518	26681	24547	8.7
TOTAL PAPER AND PAPERBOARD	5827	5501	5195	54037	50000	8.1

WOOD PULP (ALL GRADES)	Sept 83	Aug. 83	Sept 82	Jan - Sept 83	Jan - Sept 82	% Change 83/82
Dissolving & Special Alpha	91	99	79	927	832	11.4
Bleached Sulfite	113	108	95	973	954	2.0
Unbleached Sulfite	24	26	29	233	258	-9.7
Bleached & Semi-Bl. Sulfate	1690	1811	1565	15722	14904	5.5
Unbleached Sulfate	1754	1679	1494	14646	13781	6.3
Semichemical	318	328	303	2868	2829	1.4
Groundwood and Thermomechanical	428	432	426	3750	3821	-1.9
TOTAL PULP DIVISION DATA	4418	4483	3992	39118	37379	4.7

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

November 29, 1983

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1981	1982	August	September	October		
Total Production (API).......| excluding |...	62282	59488	5676	5501	5827	64844	8.1
Total Seasonally Adjusted....|construction|...			5461	5742	5619	64283	8.1
Imports (including Products).| and wet |..E	7941a	7603b	721	695	N.A.	8291	9.1
Exports (including Products).| machine |..E	4561a	4187a	375	382	N.A.	4544	6.8
Apparent Consumption.........| grades |...	65642a	62904a	5807	6055	6004	68030c	+8.3
Paper Production % Tonnage Capacity...........	92.1	87.7	94.6	92.2	95.0	91.8ah	-
Paperboard Production % Tonnage Capacity......	90.6	81.9	88.6	91.3	93.9	89.4a	-
			July	August	September		
IMPORTS.....|Including Construction and |.....	8339	8024	702	767	741	8686	9.5
EXPORTS.....| WMB Grades (excl. HPB) |.....	4641	4246	412	380	387	4609	7.4
MARKET WOOD PULP PRODUCTION - Tons (000)........	6210	5732	493	566	533	6414	10.1
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	52041	49333	4156	4483	4418	52157	4.7
WOOD PULP IMPORTS - TONS (000).................	4087	3656	327	350	332	3941	8.9
WOOD PULP EXPORTS - TONS (000).................	3678	3395	259	289	328	3592	2.6
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			July	August	September		
Wood Pulp.............|consumption for|.....	50698	48120	4059	4375	4347	50738	4.5
Waste Paper...........|construction & |.....	13875	13525	1128	1205	1188	14193	5.4
TOTAL..........| WMB grades |.....	64573	61645	5187	5580	5535	64931	4.7
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79747	79039	6801	7395	7203	85200	7.6
EMPLOYMENT (000)			August	September	October		
Paper and Allied Products..........Total......	688.5	662.0	663.4	665.0	667.5	656.8	-1.0
Pulp, Paper and Board Mills........Total.....E	267.3	257.8	254.2	254.0	255.0	253.1	-2.0
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	8.60	9.32	10.02	10.09	10.07	9.87	6.5
Pulp, Paper Mills.............................E	10.05	10.88	11.85	12.01	12.00	11.62	7.6
Paperboard Mills..............................E	10.23	11.13	12.32	12.32	12.32	12.02	9.0
			1983 Q1	1983 Q2	1983 Q3		
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS (Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.72	5.37	6.02	6.30	6.05	6.19y	3.7
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			August	September	October		
|IN PULP, PAPER |...Production Workers..........	108.2	108.9	123.4	125.7	123.9	121.0	10.3
|AND BOARD MILLS|...All Employees..............	107.5	108.3	121.7	124.7	122.9	119.3	10.3
PAPER AND ALLIED PRODUCTS (Million $)			July	August	September		
Industry Shipments (Dept. of Commerce)*........	80251	78992	7124	7307	7393	83919	6.1
Pulp, Paper and Paperboard*..................	35116	33523	3051	3086	3180	35628	5.5
Inventories (End of Period) - Total Industry*.	8641	8607	8334	8391	8510	8510	-1.7
Pulp, Paper and Paperboard*..................	3224	3365	3242	3211	3215	3215	-5.2
			1982 Q4	1983 Q1	1983 Q2		
Sales (Corporations Only, FTC)................	62699	60293	14839	15524	16500	64048	5.2
Earnings (Corporations Only, FTC).............	3110	1460	198	441	543	1968	15.2
Depreciation (Corporations Only, FTC).........	2267	2379	595	641	661	2604	10.2
Net Worth (Corporations Only, FTC)............	26558	26705	26705	26895	26856	26856	-0.2
PRICE INDEXES (Bureau of Labor Stats)1967=100			August	September	October		
Pulp, Paper & Products, ex. Building Grades...	270.8	273.2	270.1	271.7	273.0	269.8	-1.6
Wood Pulp.....................................	397.1	·379.1	348.2	348.4	348.6	345.9	-10.3
Waste Paper...................................	175.7	121.1	116.0	116.0	116.0	116.0	-5.0
Paper...	279.8	286.3	281.0	285.3	286.6	280.8	-2.4
Paperboard....................................	258.1	254.9	250.4	252.8	255.5	248.8	-3.1
PAPER DEMAND (INDEXED: 1987=100)			August	September	October		
Total Paper Production *........................	148.3	145.4	161.6	164.8	162.7	155.9	7.5
Paper New Supply *.............................	137.7	135.1	151.7	152.6	153.9	145.6	8.2
Total End - Use Index *......................	150.3	148.5	161.1	163.0	164.9	155.9	4.2
Production of Nondurable Goods *...(19%)..	164.7	156.1	172.5	173.8	174.6	168.5	6.6
Disposable Income (Constant $) *...(23%)..	154.3	157.8	164.0	165.2	166.8	162.6	3.3
Total Printing and Publishing *...(58%)..	144.0	144.0	158.3	158.6	160.9	149.7	3.7
Trend Factor	--------	--------	--------	---Not Available---	--------	--------	--------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	137.1	127.6	138.8	150.7	146.2	138.6	8.7
Production for Domestic Use	132.9	122.7	133.2	145.6	142.9	133.1	8.6
Total End - Use Index *.....................	149.3	139.5	153.1	155.0	155.8	147.5	5.3
. Production of Consumer Goods *...(60.48%)	147.8	142.7	156.1	157.8	158.2	150.9	5.6
Production of Equipment *...(6.62%)	151.8	139.8	143.1	145.1	147.8	139.0	-1.3
Production of Materials *...(32.89%)	151.5	133.7	149.6	151.7	153.0	143.2	6.2
Trend Factor	--------	--------	--------	---Not Available---	--------	--------	--------
NEWSPRINT MARKETS			July	August	September		
Consumption by Publishers - Tons (000)........	11205	11150	900	933	976	11257	3.7
Newspaper Pub. and Printing Empl. Total(000)..	419.8	417.5	422.8	422.7	424.6	419.3	0.4
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	123182	120751	8867	8483	12509	123330	7.0
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	23603	22776	1865	2184	2246	24088	5.7
Inventories (End of Period)	1971	1885	2070	2201	2244	2244	15.8
FIBRE BOX DATA (Fibre Box Association)			August	September	October		
Fibre Box Shipments (Million square feet)......	246152	235185	22891	22327	23476	254224	6.8
Container'bd Inventory at Mill & Plant(000Tons)	2729	2584	2421	2339	2300	2300	-5.1
RETAIL TRADE (Million $)							
Total Retail Sales *...........................	1047118	1074467	97601	99111	100175	1159875	8.8
Nondurable Goods Stores Sales *..............	731201	753568	66908	67139	67284	789227	5.1
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	150.9	138.6	151.7	153.6	154.8	145.9	4.7
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	293.4	299.3	304.9	305.3	306.3	302.8	1.2
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	272.4	289.1	300.3	301.8	302.6	297.4	3.2
			July	August	September		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	331.7	344.8	358.0	363.7	367.6	367.6	8.9
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1983 Q1	1983 Q2	1983 Q3		
G.N.P. or Expenditure - Current $..............	2954.1	3073.0	3171.5	3272.0	3360.3	3267.9	6.8
G.N.P. or Expenditure - 1972 $.................	1513.8	1485.4	1490.1	1525.1	1553.6	1522.9	2.4

lb/capita

	Par&Parbd		Othr		Totl	Popul(mil)
.a -	572	+	21	=	593	229.8
.b -	543	+	15	=	558	232.0
.c -	582	+	18	=	600	233.6

.E - Last month estimated by API
.e - estimated by API

a - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

1/12/84
A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 61 - No. 12 DECEMBER, 1983

Strength in Paper and Paperboard Production Continues

The rate of paper and paperboard production in November and early December continued at the high levels evident during the previous three months, with the November trend level (average of seasonally adjusted October-November rates) close to 68 million tons per year.

These highs are the result of a recent surge in production: the September trend level was 67.2 million tons per year, compared with 65.4 million tons per year in August and the 62.6 million ton average rate recorded in the first half. If production continues at its present rate, year-end shutdowns will probably result in a smaller than usual loss in tonnage, and total production in 1983 will be in the neighborhood of 64.8 million tons.

Both paper and paperboard showed this same pattern. The trend rate of paper production was 34 million tons per year for October and November compared to 31.8 million tons per year average for the first half of 1983. Paperboard production, which was just below 34 million tons per year during the past two months, averaged about 30.8 million tons per year in the first half of 1983. Based on current trends, paper production in 1983 will probably total 32.8 million tons; paperboard production about 32.0 million tons.

Paper

For the most part, the major grades of paper have followed a trend similar to that indicated for the total: a strong first half followed by a surge in production in the second half of the year.

The largest increases were evident in the printing/writing grades, tissue papers and "other" packaging papers. Production of newsprint and unbleached kraft paper, while higher in the second half than in the first, did not show

Continued on Page 2

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Continued from Page 1

as strong an increase as the other grades. Total 1983 newsprint production is pointing to a 2% gain over its 1982 level, while unbleached kraft paper appears to be rising about 2.5%. This is in contrast to the estimated 14% increase in the shipments of coated papers; 11% in uncoated free sheet papers; 10% in bleached bristols and about 12% in "other" packaging papers.

The relatively small increase in U.S. newsprint production contrasts with the increase in demand for Canadian newsprint. The Canadian Pulp and Paper Association reported that shipments of newsprint to the U.S. in the first ten months of 1983 rose 7.2%, compared to a 2.5% increase in shipments from U.S. mills to U.S. publishers. Despite the increase in Canadian shipments, Canadian newsprint accounted for only 57% of the total U.S. newsprint supply in this period. This was well below the levels that prevailed a few years ago, before the expansion in U.S. newsprint capacity. In 1978, for example, Canadian newsprint accounted for 66% of the total U.S. supply of newsprint

The force sustaining demand for uncoated free sheet papers, as pointed out in earlier reports, has been the growing demand for form bond papers, largely for use in computer printout papers, and paper for office copy machines and word processors. Use of computers in business and homes is spreading rapidly and demand for hard copy continues strong.

Tissue paper production in 1983 is estimated at about 4.7 million tons, 7% above the 1982 level and 5% above the previous highs reached in both 1979 and 1981. The strength in 1983 demand reflected increases in output of towels, toilet tissue and facial tissues.

Paperboard

Record-high rates of paperboard production in 1983 prevailed throughout the grade structure. In percentage terms, the largest increases were in the non-packaging grades of paperboard, resulting from strength in demand for gypsum wallboard facings and panelboard - used in the housing and to some extent in the automobile markets.

Production of containerboard for domestic use in 1983 is estimated about 10% above the 1982 level. This compares to an estimated 7% increase in shipments of fiber boxes, suggesting a small increase in tonnage diverted to non-box usage. Inventories

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

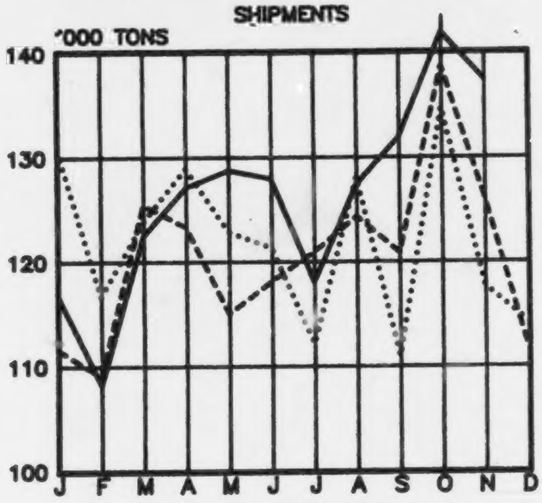
	YEAR 81	YEAR 82	AUG. 83	SEPT 83	OCT. 83	NOV. 83	Annual Rate Y-T-D 83	% Change from same Period Last Year
PAPER					R	P		
Newsprint - Production	5239	5042	459	415	448	456	5184	1.6
- Shipments	5220	4888	457	413	448	453	5142	2.3
Printing & Writing	15722	15643	1540	1459	1566	1505	17333	10.3
Groundwood Paper - Shipments	1463	1459	128	132	142	138	1515	3.3
- New Orders	1449	1469	163	131	151	124	1570	5.9
- Unfilled Orders	100	91	145	151	159	150	150	60.4
Coated Paper - Shipments	4940	5032	536	485	535	500	5710	12.9
- New Orders	4853	4988	556	451	517	442	5797	15.9
- Unfilled Orders	360	325	528	492	477	419	419	36.1
Unctd Free Sheet - Shipments	7898	7847	758	722	765	745	8699	10.4
- New Orders	7735	7820	782	720	729	727	8933	14.0
- Unfilled Orders	370	321	608	609	566	558	558	84.0
Thin Paper - Shipments	336	323	28	26	29	25	331	1.6
Cotton Fiber Paper - Shipments	125	118	11	11	11	10	123	3.8
Bleached Bristols - Production	960	865	79	83	84	87	855	9.8
Tissue Paper - Production	4518	4438	418	387	413	395	4768	7.5
Total Packaging & Other Paper *	5552	5300	514	492	508	486	5628	5.4
Unbl. Kraft Paper - Shipments	3880	3688	349	327	339	330	3809	2.5
Other Paper - Production *	1672	1612	165	165	169	156	1817	12.2
TOTAL PAPER-Production-Unadj.	31030	30422	2930	2763	2934	2842	32911	7.6
-Production-S.A.			2817	2872	2835	2862	32772	7.6
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	24231	22589	2131	2126	2219	2160	24924	8.7
Unbl. Kraft Linerboard (1)	14540	13484	1307	1324	1345	1331	15154	10.5
Production for Export	1887	1931	191	199	157	158	2178	11.5
Other Unbl. Kraft Paperboard	1062	1040	87	86	94	76	1082	1.6
Semichemical Paperboard	4719	4389	406	395	423	423	4747	7.2
Production for Export	155	185	21	17	13	8	201	6.4
Solid Bleached Paperboard	3910	3665	332	312	357	330	3941	6.2
Production for Export	557	525	37	37	48	44	528	0.3
Recycled Paperboard	7001	6476	614	611	678	645	7274	10.9
Production for Export	24	13	1	1	1	1	23	80.1
TOTAL PAPERBOARD-Prod.-Unadj.	31232	29065	2745	2737	2897	2805	32198	9.2
- Containerboard Prod.(Dom. Use)	19040	17508	1668	1659	1773	1750	19439	9.4
- Boxboard Prod.(Dom. Use) (2)	5544	5150	454	451	502	479	5525	5.9
- All Other P'bd Prod.(D.U.) (2)	4026	3753	373	374	403	364	4303	13.0
- Total Paperbd Prod. for Export	2622	2654	250	254	219	212	2930	9.2
TOTAL PAPERBOARD PROD. - S.A.			2642	2869	2788	2811	31855	9.3
TOTAL PAPER AND PAPERBOARD								
Production - actual	62262	59488	5675	5500	5831	5647	65109	3.4
Production - S.A.			5459	5741	5623	5673	64627	8.4

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

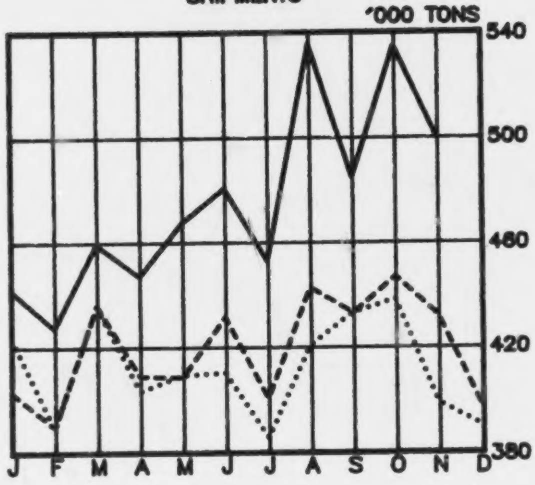
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



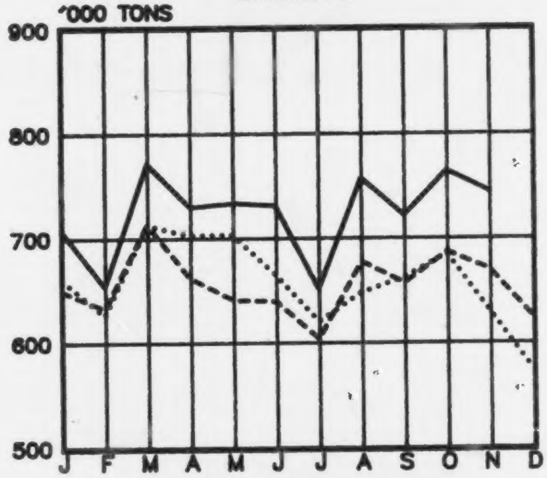
COATED PAPER

SHIPMENTS



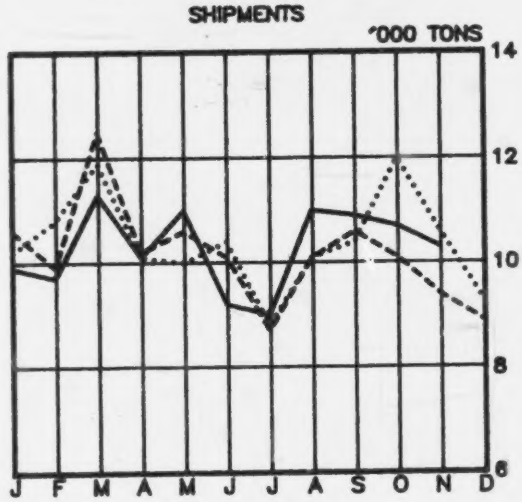
UNCOATED FREE SHEET PAPERS

SHIPMENTS



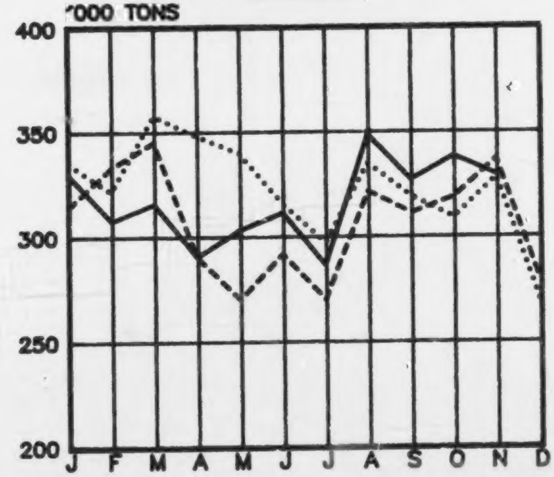
COTTON FIBER PAPER

SHIPMENTS



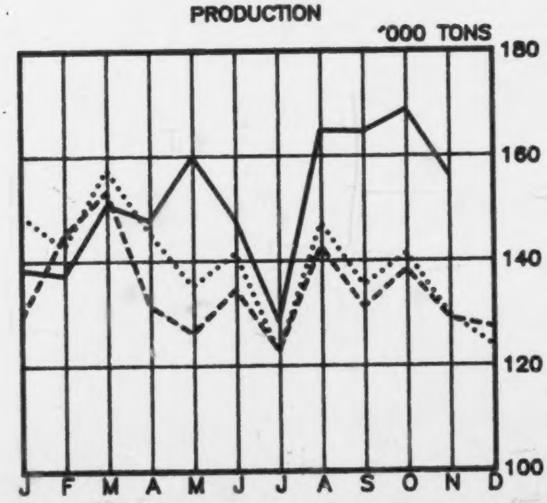
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1981 ……… 1982 - - - - - 1983 ———

WOOD PULP STATISTICS
(Thousands of Tons)

		YEAR		JULY	AUG.	SEPT	OCT.	Annual Rate Y-T-D	% Change from same Period Last Year
		81	82	83	83	83	83	83	
TOTAL WOOD PULP						R	P		
Total Wood Pulp	- Production	52041	49334	4156	4483	4422	4677	52558	5.3
	- Imports	4087	3656	327	350	332	431	4064	12.3
	- Exports	3678	3395	259	289	329	315	3610	5.1
	- New Supply	52450	49595	4225	4544	4425	4793	53012	5.8
Dissolving Pulp	- Production	1353	1093	72	99	91	113	1248	12.0
	- Imports	249	186	21	10	11	16	197	4.2
	- Exports	784	631	31	60	30	77	616	-2.2
	- New Supply	818	648	62	50	72	52	829	23.0
Paper Grades Chemical Pulp	- Production	41445	39478	3374	3624	3586	3775	42423	6.3
	- Imports	3655	3302	291	322	306	394	3688	12.9
	- Exports	2870	2736	224	227	294	237	2951	6.2
	- New Supply	42230	40043	3441	3719	3598	3932	43159	6.8
Groundwood and Thermo-Mech.	- Production	5320	5064	401	432	427	442	5030	-1.9
	- Imports	183	167	15	17	15	21	178	8.9
	- Exports	24	27	3	2	4	1	43	69.5
	- New Supply	5478	5204	412	447	438	462	5167	-1.9
Semi-Chemical	- Production	3924	3700	309	328	318	347	3857	2.2
	- Imports	0	0						
	- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
	- New Supply	3924	3700	309	328	318	347	3857	2.2
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	6210	5732	493	566	510	590	6453	11.2
	- Imports	2924	2443	233	227	218	317	2896	20.4
	- Exports	3352	3143	268	295	281	279	3436	8.3
	- New Supply	5782	5032	458	499	448	628	5913	17.4
Dissolving Pulp	- Production	1352	1090	72	99	91	111	1245	12.1
	- Imports	241	194	22	15	13	21	208	9.1
	- Exports	787	675	45	52	47	53	674	-0.4
	- New Supply	806	609	49	62	58	79	780	24.7
Paper Grades Chemical Pulp	- Production	4857	4643	420	466	418	478	5196	10.7
	- Imports	2634	2202	209	210	201	289	2651	22.3
	- Exports	2555	2468	223	243	234	227	2762	10.6
	- New Supply	4936	4376	406	433	385	540	5085	16.6
Groundwood Pulp and All Other	- Production	2	1	1	1	1	1	12	3233.3
	- Imports	49	46	2	3	4	7	36	-21.7
	- Exports	10	0	0	0	0	0	0	-50.0
	- New Supply	40	46	3	4	5	8	48	3.7

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

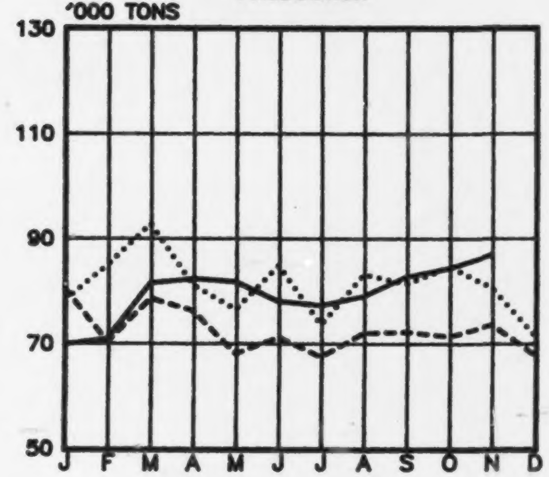
					R	P		
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	64573	61646	5187	5577	5541	5938	65568	5.4
Total Wood Pulp	50698	48121	4059	4372	4353	4617	51208	5.3
Waste Paper	13875	13525	1128	1205	1188	1321	14359	5.9
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	188	177	209	212	193	185	185	-3.3
Market Pulp at Pulp Mills	393	437	452	468	420	449	449	-3.0
Mkt Pulp at Ppr. & Bd. Mills *	454	492	499	492	534	546	546	33.5
Waste Paper at Paper &Bd. Mills	1211	1017	854	853	862	850	850	-10.9
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	33	37	33	34	31	30	30	-21.1

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

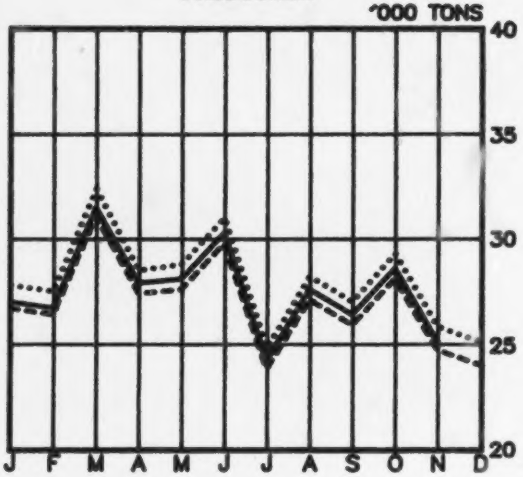
BLEACHED BRISTOLS

PRODUCTION



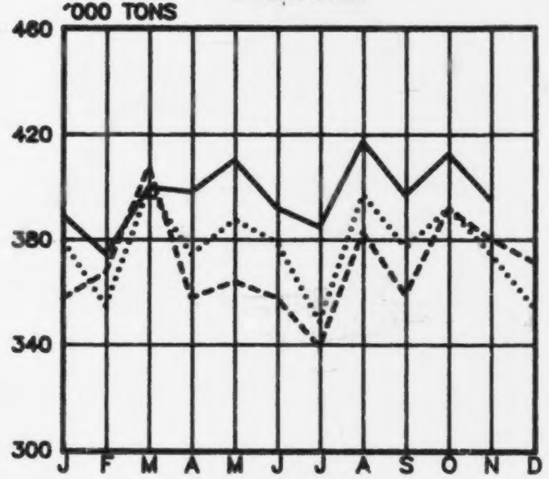
THIN PAPER

PRODUCTION



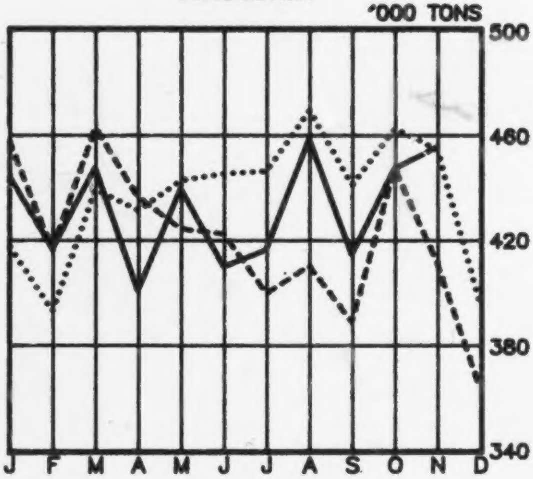
TISSUE PAPER

PRODUCTION



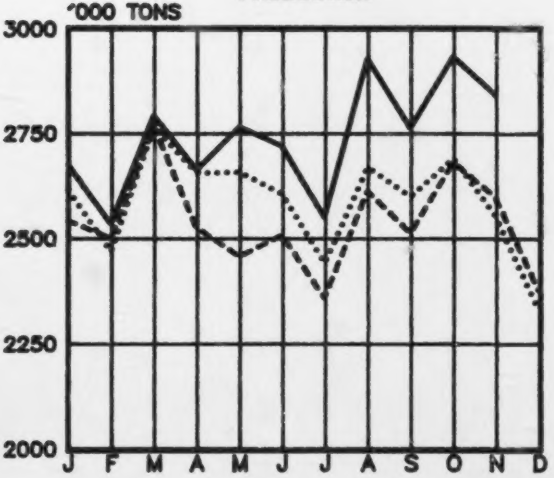
NEWSPRINT

PRODUCTION



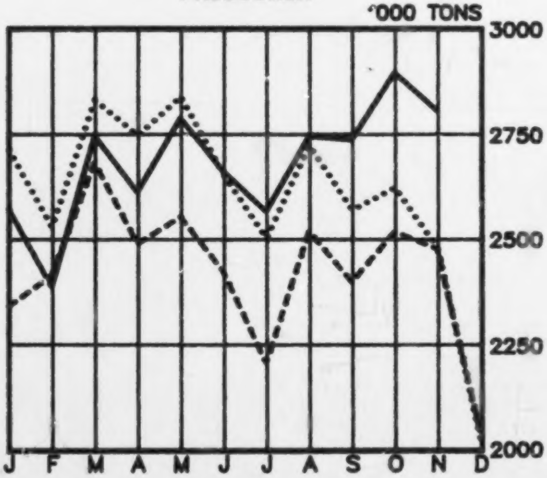
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1981 ········ 1982 - - - - - 1983 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 81	YEAR 82	JULY 83	AUG. 83	SEPT 83	OCT. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78547	78519	6821	7445	7286	7691	84734	7.3
	- Total Consumpt.	78747	79039	6801	7395	7203	7534	85721	7.8
	- Residues *	30590	31152	2644	2784	2846	3010	32936	5.9
	- Inventories	6045	5426	4952	5177	5051	5430	5430	1.9
So. Atlantic	- Total Receipts	24681	23769	2012	2219	2240	2299	25823	8.8
	- Total Consumpt	24815	23725	1983	2198	2250	2287	26009	9.2
	- Residues *	8770	8273	621	686	722	724	7944	-3.3
	- Inventories	1051	1165	1090	1143	1139	1180	1180	16.5
Northeast	- Total Receipts	7803	7283	532	642	588	649	6843	-6.0
	- Total Consumpt	7712	7221	550	629	557	642	7213	-1.6
	- Residues *	1362	1452	59	96	103	115	1170	-17.8
	- Inventories	635	652	443	469	504	537	537	-10.5
South Central	- Total Receipts	27744	26510	2420	2633	2621	2753	29587	10.8
	- Total Consumpt	27687	27153	2366	2527	2486	2561	29269	6.9
	- Residues *	8923	8616	771	800	813	852	9353	8.8
	- Inventories	1825	1346	1259	1308	1420	1628	1628	14.3
North Central	- Total Receipts	5650	5601	514	523	524	565	6294	13.6
	- Total Consumpt	5708	5706	499	522	514	553	6358	11.7
	- Residues *	1439	1517	140	147	151	181	1837	28.1
	- Inventories	1106	925	805	833	851	870	870	3.7
West	- Total Receipts	13669	15356	1343	1428	1313	1425	16087	3.4
	- Total Consumpt	13825	15234	1403	1519	1398	1491	16872	10.2
	- Residues *	10096	11294	1053	1055	1057	1138	12632	10.5
	- Inventories	1428	1338	1355	1424	1137	1215	1215	-16.4

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 82 Tons	YEAR 82 $000	SEPT 83 Tons	SEPT 83 $000	OCT. 83 Tons	OCT. 83 $000	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	87043	4711	12461	565	12285	570	111150	21.9
Pulpwood Chips	1678793	51374	208761	5082	156944	3841	2007329	17.1
Wood Pulp, Total	3364194	1386688	326653	118465	354518	127825	3697430	10.6
Waste Fibrous Materials, Total	129749	23299	12124	1872	13425	2296	156924	20.9
Paper, Board & Products, Total	7707948	3272224	673784	280011	756222	317635	8203684	6.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	7665499	3201221	668735	270934	750987	308175	8151321	6.2
Paper Paperboard & Products	7327112	3192595	630676	270420	721140	309695	7731002	5.9
Paper & Paperboard, Only	7284663	3121592	625626	261342	715905	300235	7698660	5.8
Paper, Total	7171243	3093475	608883	257040	701719	296519	7543470	5.2
Newsprint	6484605	2730256	537352	219567	630117	257862	6767402	4.0
Printing, Writing & Rel. Pap.	612760	310154	60343	31010	63859	33345	682894	15.4
Pack. & Ind. Conv. Paper	66300	46060	9772	5168	6568	4315	79800	18.4
Special Industrial Paper	1899	3123	375	609	249	403	2856	51.7
Tissue Paper	5680	3882	1041	687	926	594	10517	81.6
Paperboard, Total	113420	28117	16743	4303	14187	3716	155190	45.5
Convtd Paper&Paperbd Products	42449	71003	5049	9077	5235	9460	52342	23.9
Wet Machine Board	1302	737	196	127	300	190	3125	169.8
Construction Paper & Board	379533	78892	42913	9464	34782	7750	449537	14.3

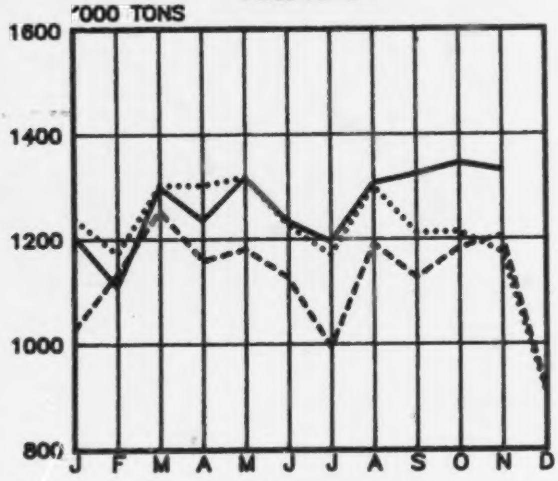
EXPORTS TO CANADA

	YEAR 82 Tons	YEAR 82 $000	SEPT 83 Tons	SEPT 83 $000	OCT. 83 Tons	OCT. 83 $000	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	107700	7263	9837	700	11660	744	69649	-38.7
Pulpwood Chips	27650	1500	2355	109	6126	372	41369	42.7
Wood Pulp, Total	116067	54691	10321	4657	15445	6219	138150	18.9
Cotton Pulp & Other Pulp	6790	4152	676	426	1380	740	9778	60.8
Waste Paper	271385	32555	30248	3567	30743	3727	343315	27.6
Paper, Board & Products, Total	583206	442437	56908	41401	61753	44241	662889	17.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	383566	275107	37869	27333	42430	29289	456733	21.1
Paper, Paperboard & Products	561355	433689	54420	40368	59783	43384	631228	16.4
Paper & Paperboard, Only	361714	266359	35381	26300	40460	28432	425072	19.9
Paper, Total	188370	185357	19226	18680	19667	18550	231283	24.1
Newsprint	3037	2671	587	527	314	258	4273	47.0
Printing, Writing & Rel. Pap.	113443	95899	10835	8945	11755	9810	125445	12.5
Pack. & Ind. Conv. Paper	20289	13615	2786	1639	2943	1904	32518	63.3
Special Industrial Paper	47736	70111	4486	7311	4387	7388	65069	35.2
Tissue	3864	3062	532	259	268	190	3947	1.6
Paperboard, Total	173345	8[illegible]01	16156	7620	20793	8882	193780	15.3
Convtd Paper&Paperbd Products	199640	167330	19039	14068	19323	14952	206156	9.7
Wet Machine Board	4365	2537	306	199	296	227	5324	13.4
Construction Pap & Bd. E	17487	6212	2161	833	1674	631	26337	46.4

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

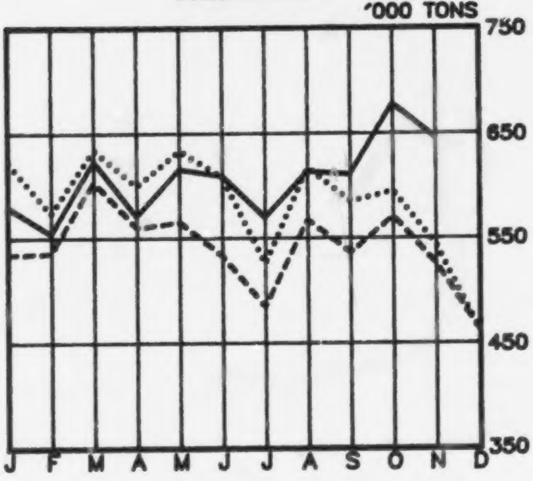
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



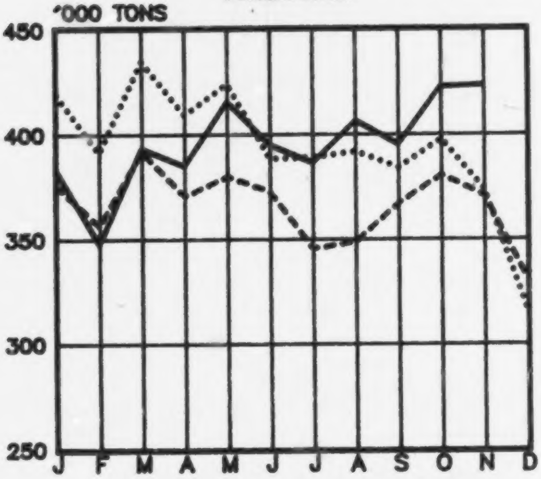
RECYCLED PAPERBOARD

PRODUCTION



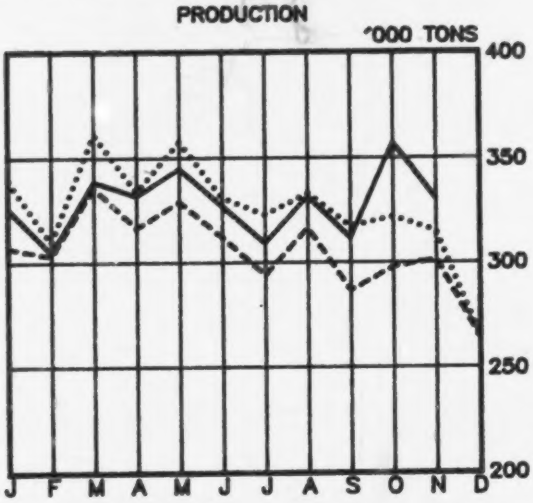
SEMICHEMICAL PAPERBOARD

PRODUCTION



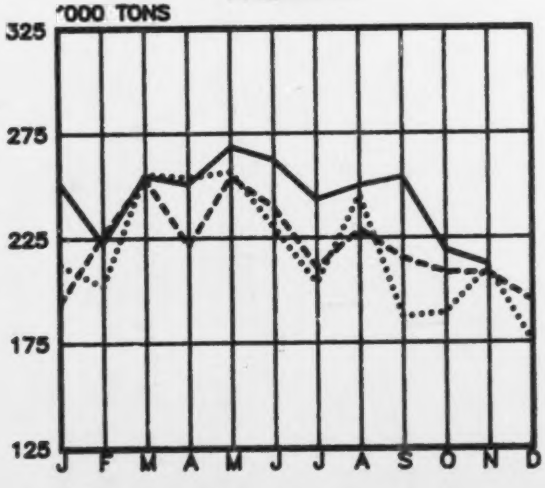
SOLID BLEACHED PAPERBOARD

PRODUCTION



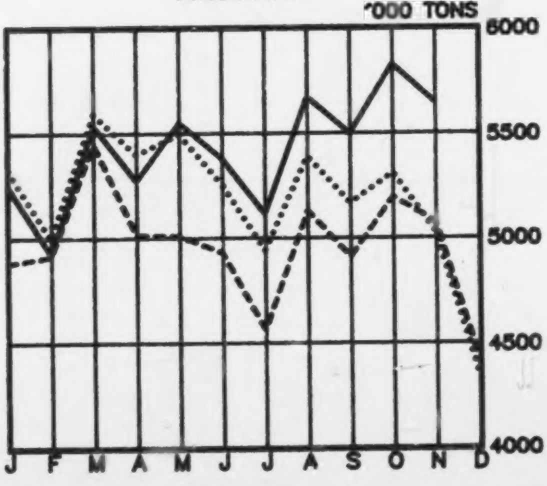
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1981 .... 1982 ----- 1983 ———

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 82 Tons	$000	SEPT 83 Tons	$000	OCT. 83 Tons	$000	(1) Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood Roundwood (cords)	87043	4711	12461	565	12285	570	111150	21.9
Pulpwood Chips	1682414	51538	208773	5084	156960	3844	2012423	17.1
Total All Imports	11824303	5209303	1086373	459807	1280021	541816	13059374	10.7
Wood Pulp Total	3655786	1493241	332082	120222	430594	151208	4063936	12.3
Waste Paper	74332	9450	8115	807	8821	1028	100907	35.0
Other Fibrous Materials	70176	24212	4717	1654	5666	1990	66491	-5.9
Paper Board & Products Total	8024009	3682401	741459	337123	834940	387590	8828041	9.8
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	7917418	3344205	728292	300990	818683	341111	8681529	9.5
Paper Ppbd & Prds ex Cnst&WMB	7602651	3594201	694726	326601	793874	378055	8325397	9.5
Paper & Paperboard Only	7496060	3256005	681560	290468	777618	331576	8178885	9.1
Paper Total	7381252	3226307	664201	285749	763307	327709	8014688	8.5
Newsprint	6530676	2748652	543241	222273	634175	259465	6832450	4.2
Printing & Writing	764095	408551	107874	55031	118384	59734	1065480	43.8
Uncoated Groundwood	514882	248196	72486	32951	75475	33562	699162	41.2
Uncoated Book	142626	80105	12236	7496	12502	7438	141821	-0.4
Coated Print.& Imprem. Pap	69010	46763	13975	8618	19707	12167	142118	111.8
Bristols	391	416	47	52	62A	75	388	5.4
Writing and Similar Paper	25893	19225	7694	4552	8246	4531	66273	164.8
Thin (except Cigarette)	11293	13846	1436	1362	2394	1962	15718	45.6
Total Pkg & Other Paper	78653	63863	12002	7714	9618	7750	105324	31.7
Unbleached Kraft Paper	23078	10749	5731	2187	4244	1820	41776	86.9
Other Pkg. & Indust. Paper	56575	53114	6271	5517	5373	5830	63548	10.3
Tissue	6828	5241	1085	732	1129	760	11444	60.6
Paperboard, Total	114808	29698	17359	4718	14311	3867	164187	52.1
Test or Containerboard	35983	8459	3927	1123	3862	1156	48034	50.0
Semi-Chemical Corrugating	47295	9679	7933	1640	6514	1385	65881	45.0
Other Paperboard	31531	11560	5499	1955	3936	1325	50272	65.0
Convtd Paper&Paperbd Products	106591	338196	13167	36133	16256	46478	146512	37.2
Paper Products, Total	92059	307245	11113	31190	13326	39677	119186	29.0
Paperboard Products, Total	14532	30951	2054	4943	2931	6802	27325	89.8
Wet machine Board	1842	1239	231	159	338	218	3542	104.7
Construction Paper & Board	419515	86961	46501	10364	40728	9317	499103	15.1
Notes								
Other: No Weight Avail. ($000)		135346		15187		15241	147006	8.7
Total Imports Incl. Other($000)		5344649		474894		557057	5562870	+4.1

EXPORTS

	YEAR 82 Tons	$000	SEPT 83 Tons	$000	OCT. 83 Tons	$000	(1)	
Pulpwood, Roundwood (cords)	111692	7475	9837	700	11660	744	70288	-40.7
Pulpwood Chips	2860133	231140	167639	11138	146914	9700	2585897	-12.4
Total All Exports	9872299	4315138	948555	360249	927343	359885	10764936	7.4
Wood Pulp, Total	3394648	1414558	328512	118024	314511	122765	3608911	5.1
Cotton Pulp and Other Pulp	104560	72327	11650	6864	9708	6771	101602	-4.5
Waste and Old Paper	2127050	238934	221568	28908	255928	32586	2488285	14.6
Paper, Board & Products, Total	4246041	2589319	386825	206453	347196	197763	4565138	5.9
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	3670413	1754352	335990	140517	295078	132216	3987196	6.5
Paper, Ppbd & Prod ex Cnst&WMB	4187119	2558943	382069	204221	342864	195811	4499421	5.8
Paper & Paperboard, Only	3611491	1723977	331235	138285	290745	130263	3921479	6.4
Paper, Total	840445	679069	59370	47889	68991	54244	786599	-11.0
Newsprint	307657	142964	24322	10522	28151	11893	298916	-8.0
Printing & Writing	246617	239135	16539	16441	18448	18979	201905	-21.3
Uncoated Groundwood	55916	48430	2527	2404	3548	3035	37389	-38.4
Clay Coated Paper	81373	65485	7419	5806	7548	5977	77836	-6.5
Uncoated Free Sheet	70599	75451	4663	5643	5015	7019	59838	-18.0
Other Printing & Writing	38729	49769	1931	2588	2337	2948	26841	-32.1
Total Pkg. & Other Paper	262861	271556	17376	19888	21129	22175	269337	-3.0
Unbleached Kraft	89068	38003	7446	3090	12196	5750	119372	29.0
Other Pkg. & Indust. Paper	173793	233553	9930	16799	8933	16425	149864	-19.0
Tissue	23310	25415	1133	1038	1263	1198	16441	-32.5
Paperboard, Total	2771046	1044908	271865	90395	221755	76020	3134880	11.9
Solid Wood Pulp	2612568	970814	261126	85232	210921	70228	2978221	12.4
Total Linerboard	1886193	542304	210848	55059	160407	41254	2253039	17.2
Bleached Kraft Linerboard	67595	26626	19861	7454	12875	5129	145808	136.4
Unbleached Kraft Linerbd	1818599	515677	190987	47605	147532	36125	2107230	13.2
Other Unbleached Kraft	139219	60780	10462	4522	5246	3241	102267	-26.7
Other Bleached Kraft	525733	349615	37652	25012	42151	24870	548729	3.9
Semi-Chemical Corrugating	61422	18116	2164	639	3116	864	74186	23.7
Recycled Paperboard	158478	74094	10739	5163	10834	5791	156659	4.3
Convtd Paper&Paperbd Products	575628	834966	50835	65936	52118	65548	577942	1.5
Paper Products, Total	315805	591163	27790	46969	26990	45556	310614	-3.7
Paperboard Products, Total	259823	243804	23045	18967	25128	19992	267328	8.3
Wet Machine Board	11089	5939	504	334	704	385	11512	6.0
Construction Paper & Board E	47833	24437	4251	1898	3629	1568	54205	13.3
Notes								
Other: No Weight Avail. ($000)		8990		753		794	7937	-16.6
Total Exports Incl. Other($000)		4324128		361002		360679	4190389	-3.1

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. A-Estimated

PRODUCER PRICE INDEXES

1967 = 100

	81	82	AUG.	SEPT	OCT.	NOV.	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	270.8	273.2	270.1	271.7	273.0	276.3	270.4	-1.2
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	272.4	275.9	271.5	273.0	274.0	277.4	272.4	-1.4
Total Wood Pulp	397.1	379.1	348.2	348.4	348.6	352.6	346.3	-9.3
Total Paper	279.8	286.3	281.0	285.3	286.6	287.9	281.2	-2.0
Total Paper, exc. Newsprint	271.1	278.3	273.5	280.3	282.6	284.3	275.8	-1.0
Newsprint	307.5	315.8	305.8	309.6	309.6	309.6	302.2	-4.7
Total Paperboard	258.1	254.9	250.4	252.8	255.5	257.3	249.7	-2.4
Total Paper and Paperboard #	273.1	276.5	271.4	275.1	276.8	278.5	271.3	-2.2
Converted Products	258.8	264.4	265.0	265.3	266.5	267.8	265.2	0.3
Waste Paper	175.7	121.1	186.2	184.5	216.4	210.2	Not Available	
All Commodities	293.4	299.3	304.9	305.3	306.3	305.6	302.8	1.2
Industrial Commodities	304.1	312.3	317.5	317.2	318.7	318.3	315.5	1.1

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

of containerboard at boxplants and mills declined slightly during 1983 from the level reached at the beginning of the year. In terms of weeks of supply, inventories declined from 7.6 weeks as of December 1, 1982 to 6.4 weeks of a greatly increased shipments level as of December 1, 1983.

Several of the boxboard grades have shown particularly strong growth in the second half of 1983. Production of folding boxboard in the January-November 1983 period was 6.5% over its 1982 level, with the bleached grades up 8% and recycled up 5%. As of mid-1983, the gain in total folding boxboard production was only 2.5%. Set-up boxboard, normally a slow growth product, is up about 7% this year. However, production of paperboard for export dropped sharply between September and October, moving from 254,000 to 219,000 tons. Production in November held close to the October level, suggesting a drop in export demand from the higher levels held during the previous months of the year. The data from the Bureau of Census on exports of unbleached kraft linerboard in October, shown on Table 9, followed a similar pattern.

Fibrous Raw Materials

Production of chemical paper grade market pulp in 1983 will probably reach 5.2 million tons, some 11% over the year-ago level. Shipments increased about 12%, reflecting a slight decline in inventories. The U.S. market took 14% more pulp in 1983 than in 1982, a pattern

Continued from Page 10

consistent with the strong demand for printing/writing paper grades. Export shipments were up about 10%, with shipments to the important European market (which accounted for about 58% of the total) up 5% and shipments to Japan (19% of the total) up 32%.

Imports and Exports

Data from the Bureau of Census show total paper and paperboard imports (including construction grades and all products) in the first ten months of 1983 up 9.8% from the year-ago level, bringing the rate to 8.8 million tons per year, about equal to the 1980 high. This was slightly below the 9.1 million tons per year average rate of the 1978-1979 period.

Total exports (including construction grades and all products), at an annual rate of 4.6 million tons, were 6% over the comparable year-ago total in this period. This was about equal to the level reached in 1981, but below the 5.2 million tons exported in the peak year 1980.

The gains in exports were concentrated almost completely in the paperboard sector, where Census data show a total gain of 12%. Total paper exports in the first 10 months of 1983, by way of contrast, declined 11%, falling below 800,000 tons per year, compared to the 840,000 tons exported in 1982.

Exports of waste paper in the first 10 months of 1983 were at an annual rate of nearly 2.5 million tons, up 14.6% from the year-ago level. While this was still a shade below the 1980 rate, it was well above that of any earlier year.

New Supply

The strong increases in paper and paperboard production and imports, accompanied by the modest increases in exports, brought total new supply of paper plus paperboard to an estimated 68.6 million tons, 9% above the 1982 level, 4.6% above the 1981 level and 3.3% above the previous high reached in 1979. The 9% gain in new supply compares to the 3.3% gain in the real GNP as estimated from preliminary data reported by the Department of Commerce. Thus, the ratio of new supply to real GNP in 1983 is estimated at 44,660 tons per billion dollars, compared to 42,350 tons in 1982 and 43,360 in 1981. The 1983 level is in fact about equal to the average level of the 1977-1979 period. The sharp gain from 1982 to 1983 points to

Continued on Page 12

Continued from Page 11

the possibility of some diversion of the total new supply to inventory accumulation. However, industrial production, a good measure of demand for packaging goods, gained an estimated 6.6% over its 1982 level. Also, as noted earlier, there are strong indications of demand growth in individual markets that were faster than that of real GNP.

Capital Expenditures

Recent data by the Department of Commerce show that paper and allied product companies spent $6.2 billion on new plant and equipment in 1983. This was 3.9% above the total spent in 1982, but 8% below 1981's $6.7 billion. The API estimates that the expenditures by these companies at establishments outside the paper industry were matched by expenditures of non-paper companies (with capacity in the industry) on paper industry establishments, so that the total spent at paper and allied products establishments in 1983 was also in the neighborhood of $6 billion.

The Department of Commerce also reported that capital expenditures by paper companies in the first half of 1984 would be at the rate of $6.8 billion per year, which would just about match the rate of expenditures in the peak year 1980.

Analysis of data on starts and carryovers published by the Department of Commerce shows that the paper companies in the first three quarters of 1983 started new projects at the rate of $6.3 billion per year. As of the end of the third quarter, there was a carryover of expenditures yet to be incurred in projects under way of $6.5 billion.

Data from the Conference Board also indicate capital expenditures will remain strong during 1984. The Conference Board reported that newly approved capital appropriations for the paper companies included in the thousand largest companies in the U.S. amounted to $655 million in the third quarter of 1983, which was close to the $679 million per quarter average of appropriations for the first half of that year. The Conference Board data show that the companies started out 1983 with an opening backlog of unspent appropriations of $5.1 billion. In the first three quarters of the year, these companies appropriated a total of $2.0 billion, cancelled $240 million in existing projects, and spent $2.5 billion on new plant and equipment. Thus, although their backlog of unspent appropriations was drawn down to $4.4 billion as of the end of the third quarter, it was still equivalent to 1.3 years of expenditures at the average expenditure rate of the first three quarters of 1983.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

DEC. 20, 1983

	PRODUCTION (000 TONS)					
	Nov. 83	Oct. 83	Nov. 82	Jan - Nov. 83	- 82	% Change 83/82
PAPER GRADES	P	R				
Newsprint	456	448	411	4752	4678	1.6
Printing & Writing	1505	1566	1335	15888	14409	10.3
Uncoated Groundwood (s)	138	142	127	1389	1345	3.3
Coated Paper (s)	500	535	432	5234	4634	12.9
Uncoated Free Sheet Paper (s)	745	765	669	7974	7225	10.4
Thin Paper (s)	25	29	25	303	299	1.6
Cotton Fiber Paper (s)	10	11	9	113	109	3.8
Bleached Bristols (s)	87	84	73	875	797	9.8
Tissue Paper	395	413	380	4371	4066	7.5
Total Pkg & Other Paper	486	508	467	5157	4892	5.4
Unbleached Kraft Packaging & Indl. Converting (s)	330	339	338	3491	3408	2.5
Other Paper *	156	169	129	1666	1485	12.2
TOTAL PAPER	2842	2934	2593	30169	28046	7.6
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1407	1439	1280	14884	13552	9.8
Unbleached Kraft Linerboard	1331	1345	1206	13892	12576	10.5
Other Unbl. Kraft Paperboard	76	94	74	992	977	1.6
Semichemical Paperboard	423	423	371	4351	4058	7.2
Bleached Paperboard	330	357	302	3612	3400	6.2
Recycled Paperboard	645	678	525	6668	6014	10.9
TOTAL PAPERBOARD	2805	2897	2477	29515	27025	9.2
TOTAL PAPER AND PAPERBOARD	5647	5831	5071	59684	55071	8.4

WOOD PULP (ALL GRADES)	Oct. 83	Sept 83	Oct. 82	Jan - Oct. 83	- 82	% Change 83/82
Dissolving & Special Alpha	113	91	96	1040	928	12.0
Bleached Sulfite	118	113	105	1091	1058	3.1
Unbleached Sulfite	25	24	31	258	289	-10.7
Bleached & Semi-Bl. Sulfate	1885	1695	1667	17612	16571	6.3
Unbleached Sulfate	1747	1754	1559	16393	15339	6.9
Semichemical	347	318	316	3215	3145	2.2
Groundwood and Thermomechanical	442	427	450	4192	4271	-1.9
TOTAL PULP DIVISION DATA	4677	4422	4223	43798	41602	5.3

(s) - Shipments   R - Revised   E - Estimate
P - Preliminary   * - Revised series based on A.P.I. data.

December 30, 1983

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1981	1982	September	October	November		
Total Production (API).......| excluding |...	62262	59468	5500	5831	5647	65109	8.4
Total Seasonally Adjusted....|construction|...			5741	5623	5673	64627	8.4
Imports (including Products).| and wet |..E	7941	7603	695	794	N.A.	8425	10.1
Exports (including Products).| machine |..E	4561	4187	382	343	N.A.	4439	5.7
Apparent Consumption.........| grades |...	65642a	62904 b	6054	6074	6138	68613c	8.7
Paper Production % Tonnage Capacity...........	92.1s	87.8Rs	93.1	95.7	95.4	92.0sh	-
Paperboard Production % Tonnage Capacity......	90.6s	82.1Rs	91.9	94.6	94.1	89.9s	-
			August	September	October		
IMPORTS.....|Including Construction and |.....	8339	8024	767	741	835	8828	9.8
EXPORTS.....| WMB Grades (excl. HPB) |.....	4641	4246	380	387	347	4565	5.9
MARKET WOOD PULP PRODUCTION - Tons (000)........	6210	5732	566	510	590	6453	11.2
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	52041	49334	4483	4422	4677	52558	5.3
WOOD PULP IMPORTS - TONS (000)..................	4087	3656	350	332	431	4064	12.3
WOOD PULP EXPORTS - TONS (000)..................	3678	3395	289	329	315	3610	5.1
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			August	September	October		
Wood Pulp............|consumption for|.....	50698	48121	4372	4353	4617	51208	5.3
Waste Paper..........|construction & |.....	13875	13525	1205	1188	1321	14359	5.9
TOTAL.........| WMB grades |.....	64573	61646	5577	5541	5938	65568	5.4
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79747	79039	7395	7203	7534	85721	7.8
			September	October	November		
EMPLOYMENT (000)							
Paper and Allied Products..........Total......	688.5	662.0	665.5	667.2	670.0	658.0	-0.7
Pulp, Paper and Board Mills........Total.....E	267.3	257.8	254.7	255.2	256.3	253.5	-1.8
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	8.60	9.32	10.11	10.10	10.18	9.90	6.5
Pulp, Paper Mills...........................E	10.05	10.88	12.01	12.03	12.10	11.67	7.6
Paperboard Mills............................E	10.23	11.13	12.34	12.34	12.37	12.05	8.9
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q1	1983 Q2	1983 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.72	5.97	6.02	6.30	6.18	6.20y	3.9
			September	October	November		
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........							
|IN PULP, PAPER |...Production Workers.........	108.2	109.9	124.3	124.1	122.7	121.0	9.9
|AND BOARD MILLS|...All Employees..............	107.5	108.3	123.5	123.0	122.0	119.4	10.1
			August	September	October		
PAPER AND ALLIED PRODUCTS (Million $)							
Industry Shipments (Dept. of Commerce)*.......	80251	78992	7307	7324	7401	84325	6.7
Pulp, Paper and Paperboard*.................	35116	33523	3086	3169	3118	35794	6.3
Inventories (End of Period) - Total Industry*.	8641	8607	8391	8490	8662	8662	-0.3
Pulp, Paper and Paperboard*.................	3224	3365	3211	3217	3281	3281	-3.4
			1983 Q1	1983 Q2	1983 Q3		
Sales (Corporations Only, FTC)................	62699	60293	15524	16500	16797	65095	7.6
Earnings (Corporations Only, FTC).............	3110	1460	441	543	678	2216	31.7
Depreciation (Corporations Only, FTC).........	2267	2379	641	661	688	2653	11.5
Net Worth (Corporations Only, FTC)............	26558	26705	26995	26856	27381	27381	2.2
			September	October	November		
PRICE INDEXES (Bureau of Labor Stats)1967=100							
Pulp, Paper & Products, ex. Building Grades...	270.8	273.2	271.7	273.0	276.3	270.4	-1.2
Wood Pulp.....................................	397.1	379.1	348.4	348.6	352.6	346.3	-9.3
Waste Paper...................................	175.7	121.1	194.5	216.4	210.2	Not Available	
Paper...	279.8	286.3	285.3	286.6	287.9	281.2	-2.0
Paperboard....................................	258.1	254.9	252.8	255.5	257.9	249.7	-2.4
			September	October	November		
PAPER DEMAND (INDEXED: 1967=100)							
Total Paper Production *......................	148.3	145.4	164.6	162.4	164.0	156.5	7.6
Paper New Supply *............................	137.7	135.1	152.4	154.9	155.8	146.5	8.3
Total End - Use Index *.....................	150.3	149.5	164.6	165.6	167.0	157.2	5.1
Production of Nondurable Goods *...(19%)..	164.7	156.1	174.8	175.9	176.7	167.7	7.4
Disposable Income (Constant $) *...(23%)..	154.3	157.8	164.6	165.9	166.7	162.8	3.3
Total Printing and Publishing *...(58%)..	144.0	144.0	161.2	162.1	164.0	151.5	5.1
Trend Factor				------Not Available------			
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	137.1	127.6	150.9	146.6	147.8	139.6	9.3
Production For Domestic Use	132.9	122.7	145.7	143.2	144.9	134.3	9.3
Total End - Use Index *....................	149.3	139.5	154.9	155.9	156.7	148.4	6.2
Production of Consumer Goods *...(60.49%)	147.8	142.7	157.4	158.0	158.3	151.5	6.1
Production of Equipment *...(6.62%)	151.8	139.8	144.9	146.9	148.7	139.8	-0.3
Production of Materials *...(32.89%)	151.5	133.7	152.3	153.8	155.3	144.4	7.6
Trend Factor				------Not Available------			
			August	September	October		
NEWSPRINT MARKETS							
Consumption by Publishers - Tons (000)........	11205	11150	933	976	1077	11424	3.9
Newspaper Pub. and Printing Empl. Total(000)..	419.8	417.5	422.7	424.5	427.2	420.1	0.6
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	123182	120751	8483	12509	14023	127825	8.3
WHOLESALERS SALES AND INVENTORIES (Million $)(j)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	23603	22776	2184	2266	2259	24414	7.3
Inventories (End of Period)	1971	1885	2201	2211	2209	2209	13.6
			September	October	November		
FIBRE BOX DATA (Fibre Box Association)							
Fibre Box Shipments (Million square feet)......	246152	235185	22319	23452	21043	253990	7.0
Container'bd Inventory at Mill & Plant(000Tons)	2729	2584	2339	2302	2390	2390	-5.3
RETAIL TRADE (Million $)							
Total Retail Sales *..........................	1047118	1074467	99202	100573	102457	1166555	8.9
Nondurable Goods Stores Sales *...............	731201	753568	67077	67481	68056	791869	5.2
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	150.9	138.6	153.9	155.1	156.3	146.9	5.7
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	293.4	299.3	305.3	306.3	305.6	302.8	1.2
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	272.4	289.1	301.8	302.6	303.1	298.0	3.2
			August	September	October		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	331.7	344.8	363.7	367.6	371.6	371.6	10.4
			1983 Q2	1983 Q3	1983 Q4		
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).							
G.N.P. or Expenditure - Current $.............	2954.1	3073.0	3272.0	3362.2	3405.0E	3302.7E	7.5
G.N.P. or Expenditure - 1972 $................	1513.8	1485.4	1525.1	1553.4	1570.6E	1534.8E	3.3

lb/capita

Pap&Parbd		Othr		Totl	Popul(mil)
.a - 572	+	21	=	593	229.8
.b - 543	+	15	=	558	232.0
.c - 587	+	18	=	605	233.6

.E - Last month estimated by API
.e - estimated by API

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

4/3/84
A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 62 - No. 1 JANUARY, 1984

Production Soars to New High

Production of paper and paperboard established a new December high of 5.1 million tons. This brought the fourth quarter average to a seasonally adjusted annual rate of 68.0 million tons per year, 2.2% above the previous high in the third quarter and 8.6% above the average seasonally adjusted rate for the first half of 1982.

Both paper and paperboard shared in this growth: fourth quarter 1983 paper production averaged 34.3 million tons per year - 8% above the first half rate; paperboard output, at 33.8 million tons per year was 10% above its first half rate.

The December high capped what was by far the highest second half production rate in history, bringing the 1983 total paper and paperboard production to 64.83 million tons, 9% above the recession-induced 1982 low and 4% above the previous high established in 1981. Paper production, at 32.88 million tons, was 8% above the 1982 level and 6% above that of 1981; paperboard, at 31.95 million tons, showed a 10% gain over 1982 and a 2% gain over the 1981 high.

The fourth quarter 1983 production rate is so high that even if the rate of production in 1984 only remains at that level the 1984 production total would establish another new high, rising 5% above its 1983.

Paper and Paperboard by Grade: The grade detail on paper and paperboard production is shown on page 3, and on the yellow Industry Fact Sheet that accompanies this report.

These tables include actual data not adjusted for usual seasonal changes, so that the December figures are lower than November's because of the usual year-end shutdowns. The table on page 3 does show the seasonally adjusted rates of paper and paperboard production separately. These data suggest that because of strong orders the shutdowns at paperboard mills in December were much less than normal, and the seasonally adjusted rate for total paper and paperboard rose significantly.

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Continued from Page 1

Both tables show the preliminary estimates of the annual totals, by grade, for 1983, together with the percent changes from 1982. The largest gains have been in the printing-writing papers (up 11%) particularly coated papers and uncoated free sheet and in tissue paper and "other" packaging and industrial papers. Among the paperboard grades, the major gains were in unbleached kraft linerboard and recycled paperboard, with semi-chemical and solid bleached paperboard both showing good growth. Exports of paperboard also showed growth, with the major tonnage gains in the production of kraft linerboard for export.

These production increases can be traced directly to the rise in customer requirements. Demand for coated paper, for example, reflected increased demand for magazines and a strong uptrend in commercial printing. The demand for uncoated free sheet papers, as noted in earlier reports, reflected the increase in demand for office copy paper and for business form bond, particularly for computer printouts. The 6% gain in packaging paper products compared reasonably well with the trend in retail sales. The yellow Industry Data Sheet shows that the gain in the dollar value in retail sales in 1983 surpassed the gain in consumer prices by about 5%, pointing to a real gain of that magnitude. The production of tissue paper, which in past years has tended to rise a little more slowly than real GNP, showed a particularly strong relative gain, with production rising about 8% compared with a 3.3% increase for real GNP. This strength reflected increases in both industrial and consumer markets.

In the paperboard grades, containerboard production for domestic use increased nearly 10%. The Fibre Box Association reported that shipments of fibre boxes made a new high in 1983 at 253 billion square feet (see Industry Data Sheet). This was 7.5% above the 1982 level and a shade above the previous record established in 1979. The December 1983 level of box shipments was the highest December on record and the fourth quarter total the highest fourth quarter. The Fibre Box Association also reported that the rate of shipments in the fourth quarter of 1983 was 261 billion square feet per year, about 3% above the year's average.

Total boxboard production in 1983 (total domestic use plus exports) rose 9.4% over the 1982 total, reflecting a strong pattern of production in the late months of 1983 relative to the 1982 levels. Folding boxboard production rose 7.3%, and set up boxboard an unusually strong 7.7%. Although the milk carton and food service grades were up only 3.0%, cup stock, which accounted for nearly 25% of the total, gained 13%.

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

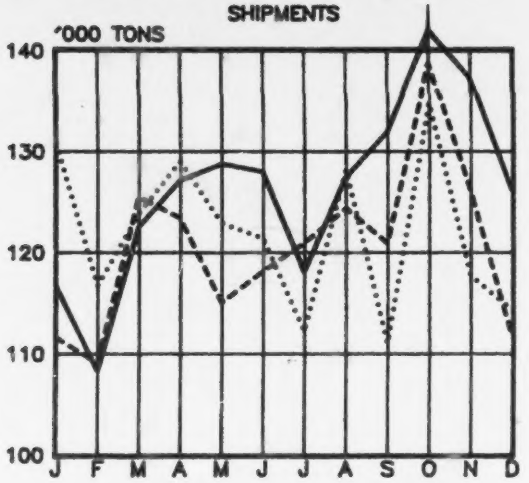
	YEAR		SEPT	OCT.	NOV.	DEC.	Annual Rate Y-T-D	% Change from same Period Last Year
	81	82	83	83	83	83	83	
					R	P		
PAPER								
Newsprint - Production	5239	5042	415	448	456	424	5176	2.7
- Shipments	5220	4988	413	448	453	425	5139	3.0
Printing & Writing	15722	15643	1459	1566	1512	1413	17309	10.7
Groundwood Paper - Shipments	1463	1459	132	142	137	126	1515	3.9
- New Orders	1449	1469	131	151	124	120	1558	6.0
- Unfilled Orders	100	91	153	161	149	141	141	55.2
Coated Paper - Shipments	4940	5032	485	535	513	476	5723	13.7
- New Orders	4853	4998	451	517	455	437	5764	15.3
- Unfilled Orders	360	325	492	477	421	391	391	20.2
Unctd Free Sheet - Shipments	7898	7847	722	765	747	704	8680	10.6
- New Orders	7735	7820	720	729	729	654	8844	13.1
- Unfilled Orders	370	321	621	578	570	526	526	63.9
Thin Paper - Shipments	336	323	26	29	25	24	328	1.6
Cotton Fiber Paper - Shipments	125	118	11	11	11	10	123	5.0
Bleached Bristols - Production	960	865	83	84	79	73	940	8.7
Tissue Paper - Production	4518	4438	399	415	410	385	4787	7.9
Total Packaging & Other Paper *	5552	5300	492	508	486	449	5606	5.8
Unbl. Kraft Paper - Shipments	3880	3688	327	339	329	301	3792	2.8
Other Paper - Production *	1672	1612	165	169	156	148	1814	12.5
TOTAL PAPER-Production-Unadj.	31030	30422	2784	2936	2864	2671	32878	8.1
-Production-S.A.			2874	2837	2884	2848	32927	8.1
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	24231	22589	2126	2219	2135	1895	24713	9.4
Unbl. Kraft Linerboard (1)	14540	13494	1324	1345	1314	1132	15007	11.2
Production for Export	1887	1931	199	157	156	168	2163	12.0
Other Unbl. Kraft Paperboard	1062	1040	96	94	72	72	1061	2.0
Semichemical Paperboard	4719	4389	395	423	420	384	4731	7.8
Production for Export	155	185	17	13	9	13	198	6.8
Solid Bleached Paperboard	3910	3665	312	357	329	307	3918	6.9
Production for Export	557	525	37	48	44	32	516	-1.6
Recycled Paperboard	7001	6476	611	678	643	568	7234	11.7
Production for Export	24	13	1	1	1	1	21	68.4
TOTAL PAPERBOARD-Prod.-Unadj.	31232	28065	2737	2897	2778	2463	31951	9.9
- Containerboard Prod.(Dom. Use)	19040	17508	1659	1773	1730	1482	19281	10.1
- Boxboard Prod.(Dom. Use) (2)	5544	5150	451	502	477	435	5498	6.7
- All Other P'bd Prod.(D.U.) (2)	4026	3753	374	403	361	333	4274	13.9
- Total Paperbd Prod. for Export	2622	2654	254	219	210	214	2898	9.2
TOTAL PAPERBOARD PROD. - S.A.			2869	2788	2784	2871	32044	10.1
TOTAL PAPER AND PAPERBOARD Production - actual	62262	59488	5501	5833	5643	5135	64829	9.0
Production - S.A.			5742	5625	5668	5719	64871	9.1

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

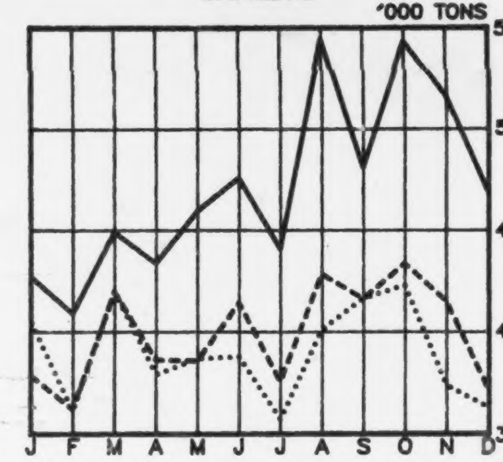
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



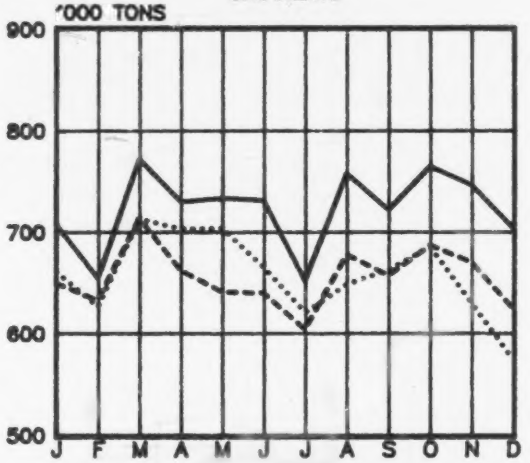
COATED PAPER

SHIPMENTS



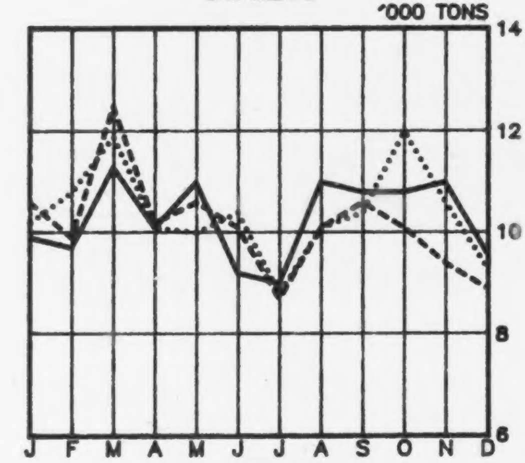
UNCOATED FREE SHEET PAPERS

SHIPMENTS



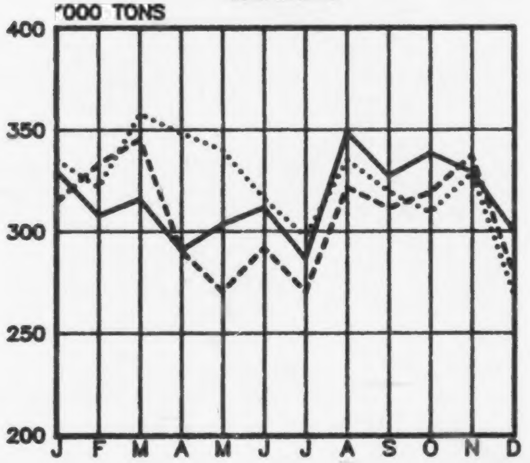
COTTON FIBER PAPER

SHIPMENTS



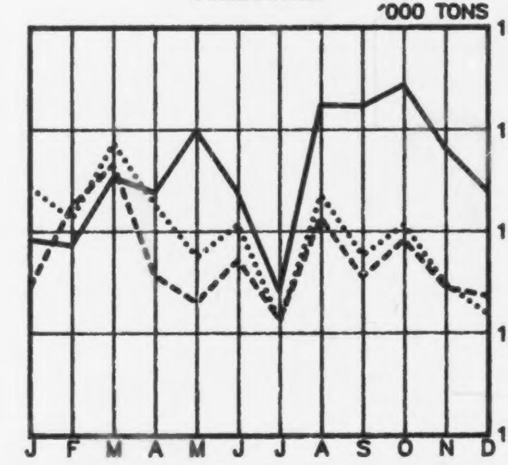
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1981 ········ 1982 - - - - - 1983 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 81	YEAR 82	AUG. 83	SEPT 83	OCT. 83	NOV. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	52041	49334	4483	4422	4685	4645	52856	5.8
- Imports	4087	3656	350	332	431	362	4089	10.5
- Exports	3678	3395	289	329	315	252	3556	4.8
- New Supply	52450	49595	4544	4425	4801	4755	53389	6.2
Dissolving Pulp - Production	1353	1093	99	91	113	116	1261	12.6
- Imports	249	186	10	11	16	7	187	-2.8
- Exports	784	631	60	30	77	61	626	-1.0
- New Supply	818	648	50	72	52	63	822	20.8
Paper Grades Chemical Pulp - Production	41445	39478	3624	3586	3777	3752	42661	6.7
- Imports	3655	3302	322	306	394	329	3711	11.4
- Exports	2870	2736	227	294	237	189	2889	5.6
- New Supply	42230	40044	3719	3598	3934	3891	43482	7.2
Groundwood and Thermo-Mech. - Production	5320	5064	432	427	449	443	5064	-0.8
- Imports	183	167	17	15	21	26	191	8.4
- Exports	24	27	2	4	1	2	41	76.7
- New Supply	5478	5204	447	438	469	467	5214	-0.8
Semi-Chemical - Production	3924	3700	328	318	347	334	3871	3.3
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	3924	3700	328	318	347	334	3871	3.3
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6210	5732	566	510	580	585	6505	11.5
- Imports	2924	2443	227	218	317	239	2893	19.5
- Exports	3352	3143	295	281	279	249	3396	9.0
- New Supply	5782	5032	499	448	628	575	6003	16.8
Dissolving Pulp - Production	1352	1090	99	91	111	117	1260	12.8
- Imports	241	184	15	13	21	13	204	3.5
- Exports	787	675	52	47	53	58	676	2.4
- New Supply	806	609	62	58	79	72	787	20.4
Paper Grades Chemical Pulp - Production	4857	4843	466	418	478	467	5233	11.0
- Imports	2634	2202	210	201	289	222	2652	21.7
- Exports	2555	2468	243	234	237	191	2720	10.8
- New Supply	4936	4376	433	385	540	498	5166	16.4
Groundwood Pulp and All Other - Production	2	1	1	1	1	1	12	3566.7
- Imports	49	46	3	4	7	4	37	-15.9
- Exports	10	0	0	0	0	0	0	-66.7
- New Supply	40	47	4	5	8	5	49	10.9

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

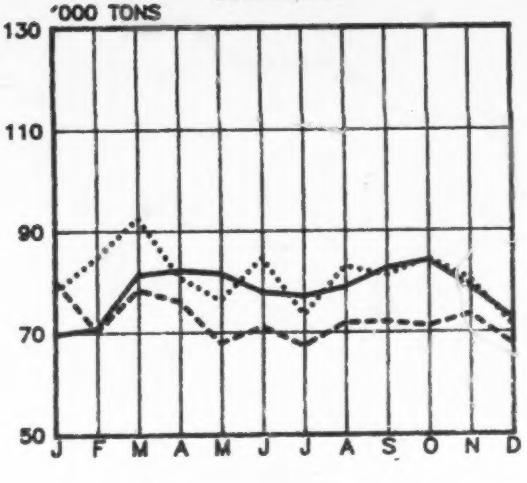
	YEAR 81	YEAR 82	AUG. 83	SEPT 83	OCT. 83	NOV. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	64573	61646	5577	5541	5947	5778	65920	6.0
Total Wood Pulp	50698	48121	4372	4353	4626	4518	51491	5.8
Waste Paper	13875	13525	1205	1188	1321	1260	14428	6.7
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	188	177	212	193	186	182	182	-1.8
Market Pulp at Pulp Mills	393	437	468	420	449	492	492	-2.2
Mkt Pulp at Ppr. & Bd. Mills *	454	492	492	534	546	571	571	23.3
Waste Paper at Paper &Bd. Mills	1211	1017	853	862	850	850	850	-9.6
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	33	37	34	31	30	34	34	-19.0

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

* - Census data prior to 1982; P - Preliminary; R - Revised; (O) - Indicates zero to five-hundred short tons

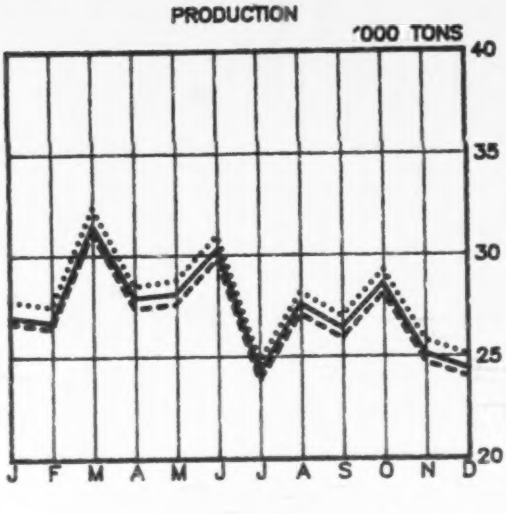
BLEACHED BRISTOLS

PRODUCTION



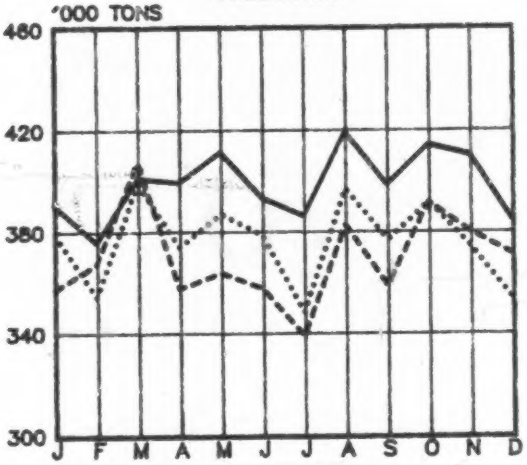
THIN PAPER

PRODUCTION



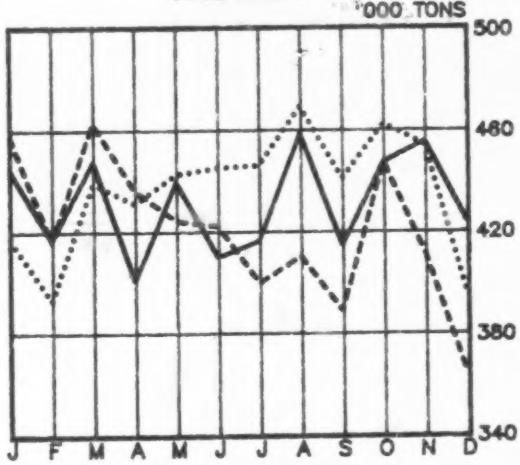
TISSUE PAPER

PRODUCTION



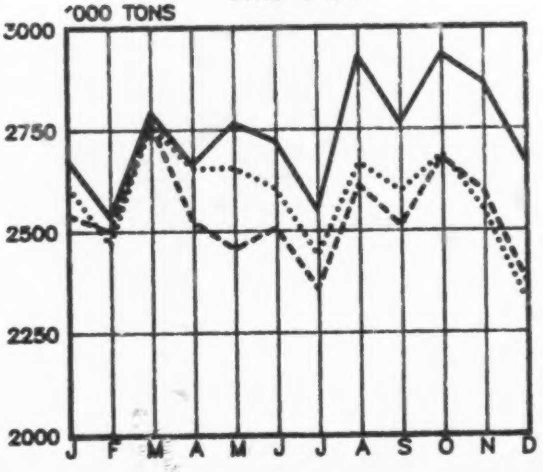
NEWSPRINT

PRODUCTION



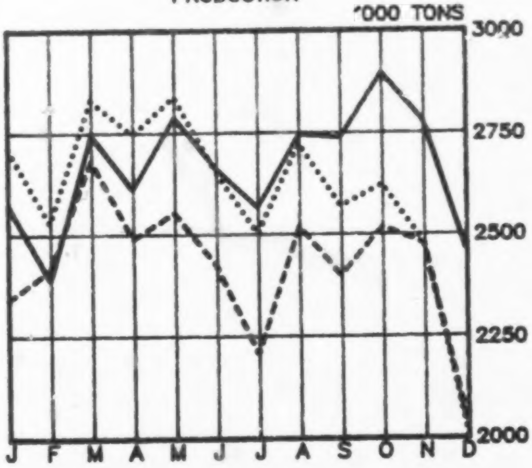
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1981 ········ 1982 - - - - - 1983 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Foot) Cords)

		YEAR 81	YEAR 82	AUG. 83	SEPT 83	OCT. 83	NOV. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78547	78519	7445	7286	7681	7172	84855	7.5
	- Total Consumpt.	78747	79038	7385	7203	7534	7267	85856	7.7
	- Residues *	30580	31152	2784	2846	3010	2802	32999	5.4
	- Inventories	6045	5426	5177	5051	5430	5266	5266	0.2
So. Atlantic	- Total Receipts	24681	23769	2219	2240	2289	2150	25821	8.2
	- Total Consumpt	24815	23725	2198	2250	2287	2153	25883	8.6
	- Residues *	8770	8273	686	722	724	671	7854	-3.9
	- Inventories	1051	1165	1143	1139	1180	1103	1103	1.8
Northeast	- Total Receipts	7803	7283	642	588	649	646	7017	-4.3
	- Total Consumpt	7712	7221	628	557	642	663	7281	-0.5
	- Residues *	1362	1452	96	103	115	117	1191	-17.5
	- Inventories	635	652	468	504	537	543	543	-6.7
South Central	- Total Receipts	27744	26510	2633	2621	2753	2538	29666	11.3
	- Total Consumpt	27687	27153	2527	2486	2561	2479	29313	7.1
	- Residues *	8923	8616	800	813	852	779	9352	8.4
	- Inventories	1825	1346	1308	1420	1628	1627	1627	22.7
North Central	- Total Receipts	5650	5601	523	524	565	493	6260	13.3
	- Total Consumpt	5708	5706	522	514	553	551	6381	11.8
	- Residues *	1439	1517	147	151	181	146	1829	25.2
	- Inventories	1106	925	833	851	870	823	823	-2.3
West	- Total Receipts	13669	15356	1428	1313	1425	1345	16092	3.2
	- Total Consumpt	13825	15234	1519	1396	1491	1421	16886	8.9
	- Residues *	10096	11294	1055	1057	1138	1089	12672	10.3
	- Inventories	1428	1338	1424	1137	1215	1170	1170	-17.5

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 82 Tons	YEAR 82 $000	OCT. 83 Tons	OCT. 83 $000	NOV. 83 Tons	NOV. 83 $000	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	87043	4711	12285	570	23330	1230	126496	43.5
Pulpwood Chips	1678783	51374	156944	3841	190828	4603	2033020	19.4
Wood Pulp, Total	3364194	1386688	354518	127825	354623	128972	3748162	9.6
Waste Fibrous Materials, Total	129749	23299	13425	2236	15108	2708	159141	21.8
Paper, Board & Products, Total	7707948	3272224	756222	317635	750061	316093	8276124	6.5
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	7665488	3201221	750987	308175	745024	306254	8223045	6.4
Paper Paperboard & Products	7327112	3192595	721140	309695	719325	308843	7831084	6.2
Paper & Paperboard, Only	7284663	3121592	715905	300235	714288	299104	7778005	6.1
Paper, Total	7171243	3093475	701719	296519	699116	295237	7620372	5.6
Newsprint	6484605	2730256	630117	257862	622144	254920	6830887	4.6
Printing, Writing & Rel. Pap.	612760	310154	63859	33345	68997	35256	696082	14.1
Pack. & Ind. Conv. Paper	66300	46060	6568	4315	6873	4165	80044	18.4
Special Industrial Paper	1899	3123	249	403	177	292	2790	51.4
Tissue Paper	5680	3882	926	594	925	604	10570	86.0
Paperboard, Total	113420	28117	14187	3716	15172	3867	157633	40.0
Convtd Paper&Paperbd Products	42449	71003	5235	9460	5037	9839	53079	24.3
Wet Machine Board	1302	737	300	190	191	130	3049	150.1
Construction Paper & Board	379533	78892	34782	7750	30545	7020	441991	11.9

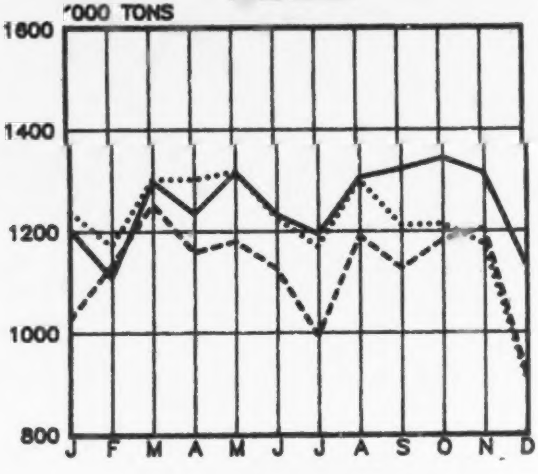
EXPORTS TO CANADA

	YEAR 82 Tons	YEAR 82 $000	OCT. 83 Tons	OCT. 83 $000	NOV. 83 Tons	NOV. 83 $000	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	107700	7263	11660	744	5528	356	69348	-38.6
Pulpwood Chips	27650	1500	6126	372	2605	122	40450	48.2
Wood Pulp, Total	116067	54691	15445	6219	10537	4661	137086	17.7
Cotton Pulp & Other Pulp	6790	4152	1380	740	743	413	9699	56.8
Waste Paper	271395	32555	30743	3727	31200	3556	346141	28.2
Paper, Board & Products, Total	583206	442437	61753	44241	57302	42835	665138	14.0
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	383566	275107	42430	29289	37079	29033	455662	18.7
Paper, Paperboard & Products	561355	433688	59783	43384	54810	41797	633636	13.8
Paper & Paperboard, Only	361714	266359	40460	28432	34587	27995	424161	18.5
Paper, Total	188370	185357	19667	19550	19954	20710	232024	23.2
Newsprint	3037	2871	314	258	251	197	4159	37.9
Printing, Writing & Rel. Pap.	113443	95899	11755	9810	10946	9422	125983	11.8
Pack. & Ind. Conv. Paper	20289	13815	2843	1904	4325	2798	34280	67.8
Special Industrial Paper	47736	70111	4397	7388	4285	8113	63856	32.7
Tissue	3864	3062	268	190	146	180	3747	-6.9
Paperboard, Total	173345	81001	20793	8882	14633	7285	192136	13.2
Convtd Paper&Paperbd Products	199640	167330	19323	14952	20223	13802	209478	5.5
Wet Machine Board	4385	2537	296	227	253	178	5118	14.9
Construction Pap & Bd. E	17487	6212	1674	831	2239	860	26385	45.4

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

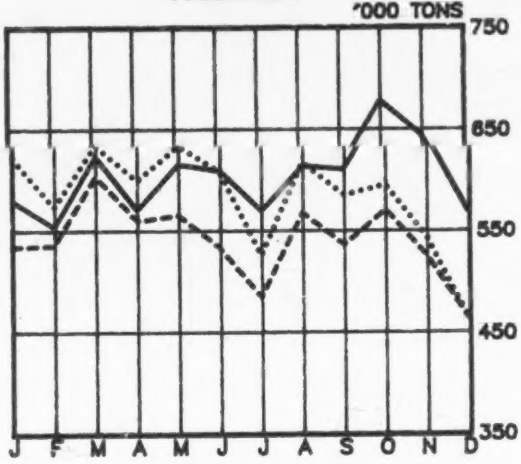
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



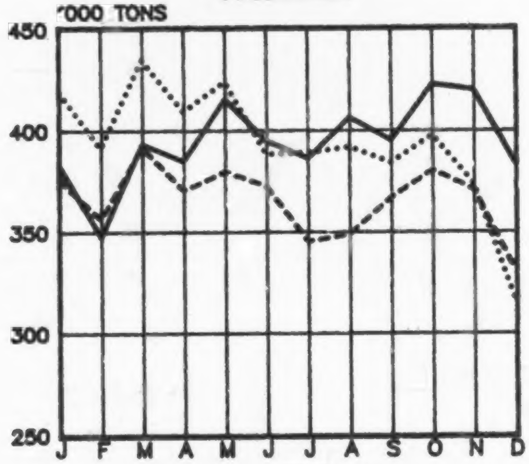
RECYCLED PAPERBOARD

PRODUCTION



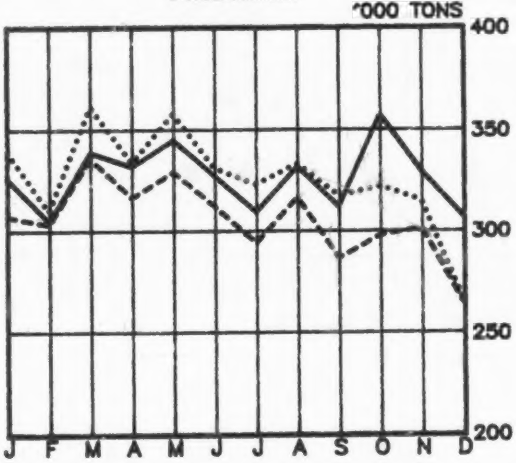
SEMICHEMICAL PAPERBOARD

PRODUCTION



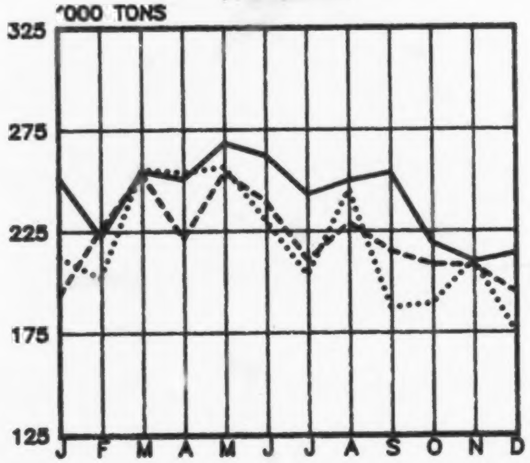
SOLID BLEACHED PAPERBOARD

PRODUCTION



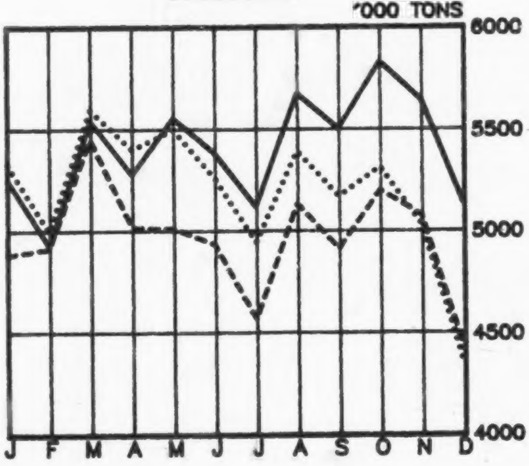
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1981 ········ 1982 ━ ━ ━ ━ 1983 ────

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 82 Tons	82 $000	OCT. 83 Tons	83 $000	NOV. 83 Tons	83 $000	(1) Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood Roundwood (cords)	87043	4711	12285	570	23330	1230	126486	43.5
Pulpwood Chips	1682414	51538	156960	3844	190828	4603	2037651	19.4
Total All Imports	11824303	5208303	1280047	541816	1232474	523479	13216705	10.7
Wood Pulp Total	3655786	1493241	430584	151208	361889	131086	4089384	10.5
Waste Paper	74332	9450	8821	1028	8419	891	102008	35.3
Other Fibrous Materials	70176	24212	5668	1990	6709	2360	67765	-3.7
Paper Board & Products Total	8024009	3682401	834966	387590	854357	389042	8957547	10.7
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	7917418	3344205	815710	341111	840892	352564	8809775	10.3
Paper Pbd & Prds ex Cnst&WMB	7602651	3594201	793901	378055	819958	380985	8463071	10.5
Paper & Paperboard Only	7496060	3256005	777644	331576	806593	344506	8315298	10.1
Paper Total	7381252	3226307	763333	327709	790988	340282	8149014	9.6
Newsprint	6530676	2748652	634175	259465	633024	258660	6901889	4.9
Printing & Writing	764085	408551	118411	58734	145250	73254	1127101	46.9
Uncoated Groundwood	514882	248196	75475	33562	87917	38263	731511	41.7
Uncoated Book	142626	80105	12502	7438	18337	11045	148932	3.8
Coated Print.& Imprem. Pap	69010	46763	19707	12167	23310	14456	154627	121.5
Bristols	391	416	88R	75	4	5	386	1.2
Writing and Similar Paper	25893	19225	8248	4531	10788	5963	72017	178.8
Thin (except Cigarette)	11283	13846	2394	1962	4854	3522	18628	74.8
Total Pkg & Other Paper	79653	63863	9618	7750	11699	7683	108512	34.3
Unbleached Kraft Paper	23078	10749	4244	1920	4390	1878	42767	83.6
Other Pkg. & Indust. Paper	56575	53114	5373	5830	7308	5704	65744	14.4
Tissue	6828	5241	1129	760	1015	685	11511	66.3
Paperboard, Total	114808	29698	14311	3867	15605	4224	166285	45.8
Test or Containerboard	35983	8459	3862	1156	3378	1078	47352	35.3
Semi-Chemical Corrugating	47295	9679	6514	1385	8307	1799	68954	47.0
Other Paperboard	31531	11560	3936	1325	3920	1347	49979	55.6
Convtd Paper&Paperbd Products	106591	338196	16256	46478	13365	36479	147772	37.9
Paper Products, Total	92059	307245	13326	39677	11346	31695	120729	30.3
Paperboard Products, Total	14532	30951	2931	6802	2019	4784	27044	86.5
Wet machine Board	1842	1239	338	218	324	215	3573	101.5
Construction Paper & Board	419515	86961	40728	9317	34076	7842	490903	12.7
Notes								
Other: No Weight Avail. ($000)		135346		15241		13529	148400	11.0
Total Imports Incl. Other($000)		5344649		557057		537008	5642981	5.6

R - Revised

EXPORTS

	YEAR 82 Tons	82 $000	OCT. 83 Tons	83 $000	NOV. 83 Tons	83 $000	(1)	
Pulpwood, Roundwood (cords)	111692	7475	11660	744	5528	356	69928	-40.3
Pulpwood Chips	2860133	231140	146914	9700	223421	15071	2594547	-10.2
Total All Exports	9872299	4315138	927343	359885	938527	361808	10810152	9.2
Wood Pulp, Total	3394648	1414558	314511	122765	251744	95347	3558367	4.8
Cotton Pulp and Other Pulp	104560	72327	9708	6771	9498	6191	101636	-3.0
Waste and Old Paper	2127050	238934	255928	32586	273788A	33782	2560755	19.4
Paper, Board & Products, Total	4246041	2589319	347196	197763	404496	226488	4591394	7.9
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	3670413	1754352	295078	132216	351511	160575	4008191	8.9
Paper, Pbd & Prod ex Cnst&WMB	4187119	2558943	342864	195811	398598	223433	4525217	7.8
Paper & Paperboard, Only	3611491	1723977	290745	130263	345613	157520	3942014	8.8
Paper, Total	840445	679069	68991	54244	60337	50872	780812	-8.9
Newsprint	307657	142964	28151	11893	22465	10031	296249	-5.5
Printing & Writing	246617	239135	18448	18979	18749	18649	204003	-18.5
Uncoated Groundwood	55916	48430	3548	3035	3965	3316	38316	-33.7
Clay Coated Paper	81373	65485	7548	5977	7661	5804	79118	-3.1
Uncoated Free Sheet	70599	75451	5015	7019	4873	7059	59715	-17.4
Other Printing & Writing	38729	49769	2337	2948	2249	2471	26855	-30.7
Total Pkg. & Other Paper	262861	271558	21129	22175	17781	20498	264249	-1.8
Unbleached Kraft	89068	38003	12196	5750	8705	3498	118017	31.6
Other Pkg. & Indust. Paper	173793	233553	8933	16425	9076	16999	146232	-18.5
Tissue	23310	25415	1263	1198	1342	1694	16411	-31.5
Paperboard, Total	2771046	1044908	221755	76020	285277	106648	3161102	14.3
Solid Wood Pulp	2612568	970814	210921	70229	275627	100666	3008157	15.2
Total Linerboard	1886193	542304	160407	41254	208695	57460	2275884	20.4
Bleached Kraft Linerboard	67595	26626	12875	5129	22866	10040	157498	148.2
Unbleached Kraft Linerbd	1818598	515677	147532	36125	185828	47420	2118386	15.9
Other Unbleached Kraft	138219	60780	5246	3241	5287	2888	88737	-28.3
Other Bleached Kraft	525733	349615	42151	24870	56645	38990	560639	7.3
Semi-Chemical Corrugating	61422	18116	3116	864	5000	1328	72897	21.6
Recycled Paperboard	158478	74094	10834	5791	9650	5983	152945	-1.8
Convtd Paper&Paperbd Products	575628	834966	52118	65548	52985	65913	583203	1.4
Paper Products, Total	315805	591163	26990	45556	27294	44863	312151	-2.1
Paperboard Products, Total	259823	243804	25128	19992	25692	21050	271053	5.8
Wet Machine Board	11089	5939	704	385	776	362	11312	0.9
Construction Paper & Board E	47833	24437	3629	1568	5122	2693	54865	17.3
Notes								
Other: No Weight Avail. ($000)		8990		784		714	7895	-13.5
Total Exports Incl. Other($000)		4324128		360679		362523	4204924	-2.8

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. A - Estimated

PRODUCER PRICE INDEXES

1967 = 100

	81	82	SEPT	OCT.	NOV.	DEC.	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	270.8	273.2	271.7	273.0	276.3	276.8	271.0	-0.8
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	272.4	275.9	273.0	274.0	277.4	277.9	272.9	-1.1
Total Wood Pulp	397.1	379.1	348.4	348.6	352.6	351.3	346.6	-8.6
Total Paper	279.8	286.3	285.3	286.6	287.9	288.9	281.9	-1.6
Total Paper, exc. Newsprint	271.1	278.3	280.3	282.6	284.3	286.0	276.7	-0.6
Newsprint	307.5	315.8	309.6	309.6	309.6	309.6	302.8	-4.1
Total Paperboard	258.1	254.9	252.8	255.5	257.9	259.5	250.5	-1.7
Total Paper and Paperboard #	273.1	276.5	275.1	276.8	278.5	279.7	272.0	-1.6
Converted Products	258.6	264.4	265.3	266.5	267.8	268.0	265.4	0.4
Waste Paper	175.7	121.1	194.5	216.4	210.2	211.5	N.A.	N.A.
All Commodities	293.4	299.3	305.3	306.3	305.6	306.0	303.1	1.3
Industrial Commodities	304.1	312.3	317.2	318.7	318.3	318.4	315.8	1.1

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor   # Computed by API

N.A. - Not Available

The largest gains however, were in the miscellaneous recycled paperboard grades, with tube can and drum stock up 17%, and gypsum wallboard facings up 26%.

Imports and Exports

The table on page 9 shows detailed data on imports and exports of pulp, paper and paperboard as reported by the Bureau of the Census, Department of Commerce. The data are available through November, 1983. The table also shows the annual rate for the first 11 months of 1983.

Imports of all products (wood pulp, waste paper, other fibrous materials, paper, paperboard and converted products) were about 11% ahead of the 1982 level, while exports showed an 9% gain. Imports of wood pulp were also strong, up 10.5% for the first 11 months of the year. Wood pulp import data are shown in more detail on the table on page 5. This table shows that imports of chemical paper grade wood were up 11.4% for this same period, while imports of dissolving pulp were down 2.8%. The chemical paper grade pulps accounted for about 95% of the total imports of paper grade pulp.

Among the paper and paperboard grades, newsprint imports were, of course, the major component. At 6.9 million tons per year, newsprint imports were roughly 5% ahead of their 1982 level; domestic newsprint production showed a gain of about 3% for 1983 as a whole. At the same time, newsprint exports wore off a bit from the year-earlier level, but were still near the 300,000 ton per year rate.

Continued on Page 11

Continued from Page 10

The table on page 9 also shows the value of imports in the January-November period at $5.6 billion per year, about 5.6% over the 1982 level. Exports, at $4.2 billion per year, were down slightly from the $4.3 billion exported in 1982.

Total new supply of paper, paperboard and products in 1983, as shown on the Industry Data Sheet, is estimated at 68.8 million tons, 9.4% ahead of the 1982 total and 4.8% ahead of the previous high established in 1981. Compared to real GNP, the preliminary estimate of new supply in 1983 was equivalent to 44,840 tons per billion dollars of real GNP, higher than the 42,350 tons in 1982 and 43,360 tons in 1981. The estimated 1983 level is equal to the higher relationship between paper and paperboard and real GNP that prevailed in the 1976-1979 period.

The increase in the ratio of new supply to real GNP in 1983 over the 1981-1982 level raises the possibility that some tonnage was diverted to inventory. Data on inventories at pulp, paper and converting paper and paperboard mills do not show any significant inventory accumulation, although inventories held by printers did rise during the year. The increases in the ratio of new supply to real GNP can also be attributed to the fact that some industries where paper and board usage is particularly large rose faster than real GNP. Housing and autos are examples.

Analysis of the new supply/real GNP ratios of the individual grades shows that the new supply of the major printing paper grades - coated paper, uncoated groundwood and uncoated free sheet - rose much faster than real GNP in 1983, with the ratios moving to new highs. The coated paper ratios were particularly strong following a pattern of consecutive yearly gains in the previous three years. The ratio of new supply to real GNP for newsprint moved above its 1982 level, but remained below its 1980-1981 level. While the ratio for tissue paper was also higher than 1982 in 1983, here it was only back to its 1979 level. A similar pattern was shown for unbleached kraft linerboard, where the ratio of new supply to real GNP was significantly above its 1982 level, but only slightly above the levels reached in 1979 and 1981.

Overall, there is some evidence of a modest inventory accumulation in some of the grades, but even in those grades the fast pace of paper and board usage indicates no excesses at present.

Continued on Page 12

Continued from Page 11

Fibrous Materials

The table on page 5 shows that the production of wood pulp in the first 11 months of 1983 was about 6% over its corresponding 1982 total. The total production of paper grade chemical market pulp for 1983 as a whole amounted to 5.2 million tons, 11.4% ahead of 1982, and a record-high for this grade. The chemical paper grade market pulps account for all but a negligible part of the total paper grade market pulp produced in the U.S. Shipments were a little ahead of production, so that inventories at the end of the year were somewhat lower than at the beginning.

Shipments of chemical paper grade market pulp to the domestic market in 1983 accounted for 48% of the total, leaving 52% for exports. Relative to 1982, shipments of chemical paper grade market pulp from U.S. producers to the U.S. market increased 17%. Exports to Western Europe, which accounted for over half the total, were 7% ahead of the 1982 level, while exports to Japan, which accounted for 17% of the total, rose by 29%. Total exports from U.S. mills to all markets were up 10%.

Capital Expenditures

The Department of Commerce recently released its estimates of capital expenditures by major industry for 1984. The Commerce data pointed to total expenditures for new plant and equipment in 1984 at $333 billion, 9.9% ahead of 1983 and 5.3% ahead of the capital expenditures in 1982. More importantly, the Commerce figures indicated that in terms of constant (1972) dollars, the increase from 1983 to 1984 would be 9.4%, suggesting a small increase in the average price of new plant and equipment.

For the paper industry, the Department of Commerce figures indicate capital expenditures in 1984 at $6.92 billion, 11.7% ahead of the 1983 level and 16% ahead of the 1982 total. The projected 1984 expenditure would exceed the previous high of $6.8 billion in 1980. Commerce also reported that capital expenditures for all non-durable goods producers in 1984 would be 10.7% ahead of 1983 in current dollars and 10.0% ahead in constant dollars. From this it would appear that the expectation of the Department of Commerce of only modest price increases in new plant and equipment extends to the pulp and paper industry. This premise needs to be carefully evaluated.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

JAN. 20, 1984

PRODUCTION (000 TONS)

	Dec. 83	Nov. 83	Dec. 82	Jan - Dec. 83	Jan - Dec. 82	% Change 83/82
PAPER GRADES	P	R				
Newsprint	424	456	364	5176	5042	2.7
Printing & Writing	1413	1512	1234	17309	15643	10.7
Uncoated Groundwood (s)	126	137	114	1515	1459	3.9
Coated Paper (s)	476	513	398	5723	5032	13.7
Uncoated Free Sheet Paper (s)	704	747	622	8680	7847	10.6
Thin Paper (s)	24	25	24	328	323	1.6
Cotton Fiber Paper (s)	10	11	9	123	118	5.0
Bleached Bristols (s)	73	79	68	940	865	8.7
Tissue Paper	385	410	372	4787	4438	7.9
Total Pkg & Other Paper	449	486	407	5606	5300	5.8
Unbleached Kraft Packaging & Indl. Converting (s)	301	329	280	3792	3688	2.8
Other Paper *	148	156	127	1814	1612	12.5
TOTAL PAPER	2671	2864	2376	32878	30422	8.1
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1205	1386	983	16068	14535	10.6
Unbleached Kraft Linerboard	1132	1314	919	15007	13494	11.2
Other Unbl. Kraft Paperboard	72	72	64	1061	1040	2.0
Semichemical Paperboard	384	420	331	4731	4389	7.8
Bleached Paperboard	307	329	264	3918	3665	6.9
Recycled Paperboard	568	643	463	7234	6476	11.7
TOTAL PAPERBOARD	2463	2778	2041	31951	29065	9.9
TOTAL PAPER AND PAPERBOARD	5135	5643	4417	64829	59488	9.0

WOOD PULP (ALL GRADES)	Nov. 83	Oct. 83	Nov. 82	Jan - Nov. 83	Jan - Nov. 82	% Change 83/82
Dissolving & Special Alpha	116	113	99	1156	1027	12.6
Bleached Sulfite	106	118	98	1196	1156	3.5
Unbleached Sulfite	26	27	30	285	318	-10.3
Bleached & Semi-Bl. Sulfate	1851	1885	1700	19463	18271	6.5
Unbleached Sulfate	1769	1747	1564	18162	16903	7.4
Semichemical	334	347	290	3549	3435	3.3
Groundwood and Thermomechanical	443	449	407	4642	4678	-0.8
TOTAL PULP DIVISION DATA	4645	4685	4187	48452	45789	5.8

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

January 26, 1983

	Full Year		INDUSTRY DATA - 1983			1983 Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1981	1982	October	November	December		
Total Production (API).......| excluding |...	62262	59488	5833	5643	5135	64829	9.0
Total Seasonally Adjusted....|construction|...			5625	5668	5719	64871	9.1
Imports (including Products).| and wet |..E	7941	7603	794	820	N.A.	8523	12.1
Exports (including Products).| machine |..E	4561	4187	343	398	N.A.	4528	8.1
Apparent Consumption.........| grades |...	65642a	62904b	6076	6089	6104	68824c	+9.3
Paper Production % Tonnage Capacity...........	92.1s	87.8s	95.7	96.1	86.7	93.4sh	-
Paperboard Production % Tonnage Capacity......	90.6s	82.1s	94.6	93.1	79.8	89.7s	-
			September	October	November		
IMPORTS.....|Including Construction and |.....	8339	8024	741	835	854	8857	10.7
EXPORTS.....| WMB Grades (excl. HPB) |.....	4641	4246	387	347	404	4591	7.9
MARKET WOOD PULP PRODUCTION - Tons (000)........	6210	5732	510	530	585	6505	11.5
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	52041	49334	4422	4685	4645	52856	5.8
WOOD PULP IMPORTS - TONS (000)..................	4087	3656	332	431	362	4089	10.5
WOOD PULP EXPORTS - TONS (000)..................	3678	3395	329	315	252	3556	4.8
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			September	October	November		
Wood Pulp.............|consumption for|.....	50698	48121	4353	4628	4518	51491	5.9
Waste Paper...........|construction & |.....	13875	13525	1188	1321	1260	14428	6.7
TOTAL..........| WMB grades |.....	64573	61646	5541	5947	5778	65920	6.0
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79747	79039	7203	7534	7267	85856	7.7
EMPLOYMENT (000)			October	November	December		
Paper and Allied Products..........Total......	688.5	662.0	666.8	667.6	667.6	658.5	-0.5
Pulp, Paper and Board Mills........Total.....E	267.3	257.8	255.2	255.5	255.5	253.6	-1.6
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	8.60	9.32	10.10	10.19	10.17	9.92	6.4
Pulp, Paper Mills............................E	10.05	10.88	12.03	12.15	12.14	11.71	7.7
Paperboard Mills.............................E	10.23	11.13	12.34	12.49	12.48	12.10	8.7
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q2	1983 Q3	1983 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.72	5.97	6.30	6.18	6.30	6.20y	3.9
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			October	November	December		
|IN PULP, PAPER |...Production Workers.........	108.2	109.9	124.2	123.8	125.6	121.5	10.6
|AND BOARD MILLS|...All Employees.............	107.5	108.3	123.0	122.9	125.2	120.0	10.8
PAPER AND ALLIED PRODUCTS (Million $)			September	October	November		
Industry Shipments (Dept. of Commerce)*........	80251	78992	7324	7453	7515	84914	7.4
Pulp, Paper and Paperboard*.................	35116	33523	3168	3110	3205	36027	7.1
Inventories (End of Period) - Total Industry*.	8641	8607	8490	8675	8764	8764	0.8
Pulp, Paper and Paperboard*.................	3224	3365	3217	3271	3306	3306	-2.5
			1983 Q1	1983 Q2	1983 Q3		
Sales (Corporations Only, FTC).................	62699	60293	15524	16500	16797	65095	7.6
Earnings (Corporations Only, FTC)..............	3110	1460	441	543	678	2216	31.7
Depreciation (Corporations Only, FTC)..........	2267	2379	641	661	688	2653	11.5
Net Worth (Corporations Only, FTC).............	26559	26705	26995	26856	27381	27381	2.2
PRICE INDEXES (Bureau of Labor Stats)1967=100			October	November	December		
Pulp, Paper & Products, ex. Building Grades...	270.8	273.2	273.0	276.3	276.8	271.0	-0.8
Wood Pulp......................................	397.1	379.1	348.6	352.6	351.3	346.6	-8.6
Waste Paper....................................	175.7	121.1	216.4	210.2	211.5	Not Available	
Paper..	279.8	286.3	288.6	287.9	288.9	281.9	-1.6
Paperboard.....................................	258.1	254.9	255.5	257.9	258.5	250.5	-1.7
PAPER DEMAND (INDEXED: 1967=100)			October	November	December		
Total Paper Production *......................	148.3	145.4	162.5	165.3	163.2	157.2	8.1
Paper New Supply *............................	137.7	135.1	155.0	158.6	154.0	147.4	9.1
Total End - Use Index *......................	150.3	149.5	166.0	166.6	166.9	158.0	5.7
Production of Nondurable Goods *...(19%)..	164.7	156.1	175.8	176.3	176.3	168.3	7.9
Disposable Income (Constant $) *...(23%)..	154.3	157.8	166.3	167.4	168.6	163.4	3.5
Total Printing and Publishing *...(58%)..	144.0	144.0	162.7	163.1	163.2	152.5	5.9
Trend Factor	------------------	------------------	-------Not	Available-------	------------------	------------------	------------------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	137.1	127.6	146.6	146.4	151.0	140.4	10.1
Production for Domestic Use	132.9	122.7	143.2	143.5	148.1	135.4	10.2
Total End - Use Index *.....................	149.3	139.5	155.4	156.3	157.1	149.0	6.8
Production of Consumer Goods *...(60.49%)	147.8	142.7	157.1	157.8	158.7	152.0	6.5
Production of Equipment *...(6.62%)	151.8	138.8	147.1	149.3	150.8	140.7	0.6
Production of Materials *...(32.88%)	151.5	133.7	153.9	154.9	155.3	145.3	6.7
Trend Factor	------------------	------------------	-------Not	Available-------	------------------	------------------	------------------
NEWSPRINT MARKETS			September	October	November		
Consumption by Publishers - Tons (000)........	11205	11150	974	1099	1094	11801	4.8
Newspaper Pub. and Printing Empl. Total(000)..	419.8	417.5	424.5	427.3	428.5	420.8	0.8
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	123182	120751	12509	14023	14737	132281	8.4
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	23603	22776	2268	2234	2217	24586	8.1
Inventories (End of Period)	1971	1885	2211	2217	2306	2306	16.3
FIBRE BOX DATA (Fibre Box Association)			October	November	December		
Fibre Box Shipments (Million square feet)......	246152	235185	23559	21025	19874	252876	7.5
Container'bd Inventory at Mill & Plant(000Tons)	2729	2584	2302	2415	2442	2442	-5.5
RETAIL TRADE (Million $)							
Total Retail Sales *...........................	1047118	1074467	100841	101981	102059	1171193	9.0
Nondurable Goods Stores Sales *..............	731201	753568	67749	67870	67405	793367	5.3
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	150.9	138.6	155.0	156.1	156.9	147.7	6.5
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	293.4	299.3	306.3	305.6	306.0	303.1	1.3
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	272.4	289.1	302.6	303.1	303.5	298.4	3.2
			September	October	November		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	331.7	344.8	367.6	371.6	376.4	376.4	11.2
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions).			1983 Q2	1983 Q3	1983 Q4		
G.N.P. or Expenditure - Current $.............	2954.1	3073.0	3272.0	3362.2	3432.0	3309.4	7.7
G.N.P. or Expenditure - 1972 $................	1513.8	1485.4	1525.1	1533.4	1570.5	1534.8	3.3

lb/capita

Pap&Parbd	Othr		Totl	Popul(mil)
.a - 572	+ 21	=	593	229.8
.b - 543	+ 15	=	558	232.0
.c - 589	+ 18	=	607	233.6

.E - Last month estimated by API
.e - estimated by API

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
J - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

3/8/84
A 2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 62 - No. 2 **FEBRUARY 1984**

Paper and Paperboard Production Holds to Record High Rates

The rate of paper and paperboard production in January 1984 held close to the record high rates established in the last four months of 1983. The trend rate of production in January (average of January 1984 and December 1983 seasonally adjusted production) was 68.6 million tons per year - matching the record high December 1983 trend level. This rate is 5.7% above the 64.87 million tons produced in all of 1983. The 1983 total was itself a new high, 9% above the 1982 recession low and 4.2% above the previous high established in 1981.

While the production of paper and paperboard was strong throughout 1983, there was an escalation in the pace of advance during the last half of the year. In the first half of 1983, the rate of production averaged 62.6 million tons per year. Shortly after mid-1983, production rose sharply, bringing the third quarter average to 65.6 million tons per year and the fourth quarter to 68.2 million tons per year.

Among the paper grades, the seasonally adjusted rate of printing-writing production in January was close to its fourth quarter 1983 average level, with coated papers showing the greatest strength. The uncoated free sheet grades however, were down a few percentage points from their fourth quarter 1983 rate. The backlog of unfilled orders for uncoated free sheet papers at the end of January 1984, was somewhat below the peak levels reached last summer, but has followed a flat trend during the first five weeks of this year. Relative to the year-ago level, unfilled orders for uncoated free sheet papers at the end of January 1984 were up 76%.

Tissue paper grades continued to show strength, with the January level some 5% over its year-ago rate. Among the packaging and industrial converting paper grades, shipments of kraft paper in January, while holding close to its fourth quarter average, were below their year-ago rate.

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Continued from Page 1

The seasonally adjusted rate of paperboard production in January 1984 was above its fourth quarter 1983 level. The trend position, at 34 million tons per year, established a new high. The major strengths were in the containerboard grades for domestic use - unbleached kraft linerboard and semi-chemical paperboard - and recycled paperboard. Total production of containerboard for domestic use in January was roughly 10% above its year-earlier rate, matching the 10% increase in shipments of corrugated shipping containers reported by the Fibre Box Association for that month. The January seasonally adjusted rate of fibre box shipments was about 5% over its 1983 average level.

Production of gypsum wallboard facings in January 1984 was 51% above its year-ago level. In addition, recycled tube, can and drum stock continued to be extremely strong, running some 22% over its year-ago level in January 1984. While not keeping pace with the leaders, folding boxboard production in January was up a respectable 5% while set-up boxboard showed a 20% gain.

Some weakness was shown in the milk carton and food service grades in January with all major types below their year-ago levels. Total bleached paperboard production, as noted in the table on Page 3, was about 2% below its January 1983 level and slightly below the average rate for all of 1983. Part of this decline can be traced to weakness in production for exports, reflecting in turn, the effect of the strong U.S. dollar on the export markets for paperboard.

The impact of the strong dollar is also being felt by production of unbleached kraft linerboard for export; the January rate was 15% below its year-ago level. Total paperboard production for export in January, at 208,000 tons, was 17% below the January 1983 level, and about 14% below 1983's 242,000 tons per month average.

Wood Pulp

Production of chemical paper grade market wood pulp in January 1984 held at the high rates established in the fourth quarter of 1983, moving 15.5% above the January 1983 total. Shipments were up 12%, reflecting a 12% increase to the U.S. market and a similar increase in export shipments. The largest gain in exports was in exports to Japan, which increased by 72%.

International Trade

Imports of wood pulp, paper and paperboard declined seasonally in December, but were well above their year-ago level. For 1983 as a whole, imports of paper plus paperboard amounted

Continued on Page 10

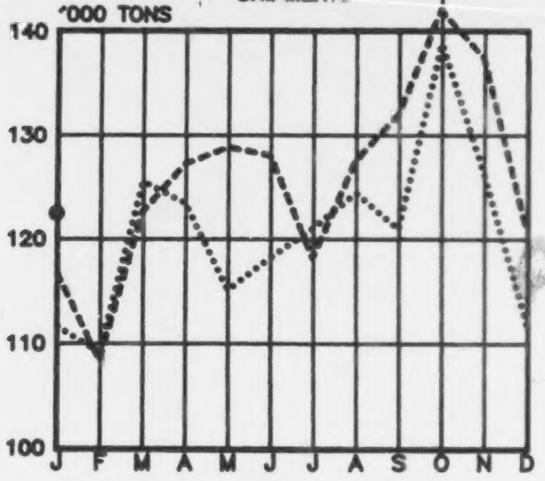
PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

	YEAR		OCT.	NOV.	DEC.	JAN.	Annual Rate Y-T-D	% Change from same Period
	82	83	83	83	83	84	84	Last Year
PAPER					R	P		
Newsprint - Production	5042	5167	448	456	410	459	5513	3.4
- Shipments	4988	5153	448	454	430	457	5483	12.0
Printing & Writing	15643	17355	1566	1514	1458	1481	17771	7.9
Groundwood Paper - Shipments	1459	1509	142	137	121	125	1499	7.0
- New Orders	1469	1564	152	124	122	133	1595	8.7
- Unfilled Orders	91	156	164	153	156	152	152	52.0
Coated Paper - Shipments	5032	5743	535	513	486	498	5971	12.6
- New Orders	4998	5850	523	483	504	495	5945	11.7
- Unfilled Orders	325	463	486	447	463	443	443	32.3
Unctd Free Sheet - Shipments	7847	8702	765	748	726	737	8840	4.1
- New Orders	7820	9010	741	757	735	693	8321	-2.5
- Unfilled Orders	321	676	639	857	676	604	604	76.0
Thin Paper - Shipments	323	328	28	25	24	28	336	3.7
Cotton Fiber Paper - Shipments	118	124	11	11	10	12	140	18.2
Bleached Bristols - Production	865	948	84	79	81	82	984	17.3
Tissue Paper - Production	4438	4792	414	408	393	410	4920	5.0
Total Packaging & Other Paper *	5300	5606	508	486	449	481	5766	2.8
Unbl. Kraft Paper - Shipments	3688	3792	339	328	301	317	3805	-3.9
Other Paper - Production *	1612	1814	169	158	148	163	1961	18.0
TOTAL PAPER-Production-UnadJ.	30422	32919	2935	2864	2708	2831	33870	5.8
-Production-S.A.			2836	2884	2888	2854	34244	5.8
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	22589	24718	2218	2135	1885	2103	25234	5.5
Unbl. Kraft Linerboard (1)	13494	15007	1345	1314	1132	1262	15138	4.8
Production for Export	1931	2163	157	156	168	154	1851	-15.3
Other Unbl. Kraft Paperboard	1040	1061	94	72	72	90	1086	11.7
Semichemical Paperboard	4389	4731	423	420	384	431	5175	12.8
Production for Export	185	188	13	8	13	12	147	-25.5
Solid Bleached Paperboard	3665	3818	357	329	307	320	3834	-1.8
Production for Export	525	516	48	44	32	40	482	-19.8
Recycled Paperboard	6476	7234	678	643	588	670	8035	15.6
Production for Export	13	21	1	1	1	1	13	-47.8
TOTAL PAPERBOARD-Prod.-UnadJ.	28065	31851	2897	2778	2463	2772	33268	7.8
- Containerboard Prod.(Dom. Use)	17508	18281	1773	1730	1482	1686	20354	9.6
- Boxboard Prod.(Dom. Use) (2)	5150	5488	502	477	435	474	5687	4.0
- All Other P'bd Prod.(D.U.) (2)	3753	4274	403	361	333	385	4735	24.2
- Total Paperbd Prod. for Export	2654	2888	218	210	214	208	2494	-17.2
TOTAL PAPERBOARD PROD. - S.A.			2788	2784	2871	2815	33776	7.8
TOTAL PAPER AND PAPERBOARD								
Production - actual	59488	64870	5832	5642	5173	5603	67238	6.8
Production - S.A.			5624	5668	5759	5666	68019	6.8

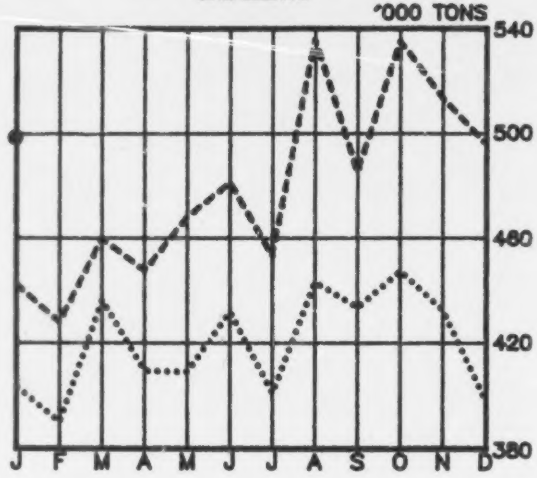
(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally AdJusted



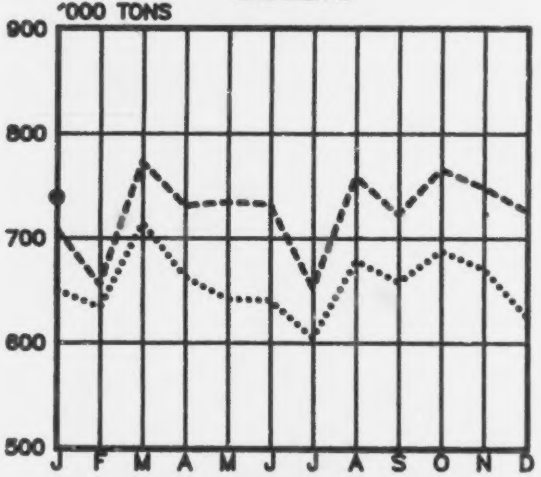
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



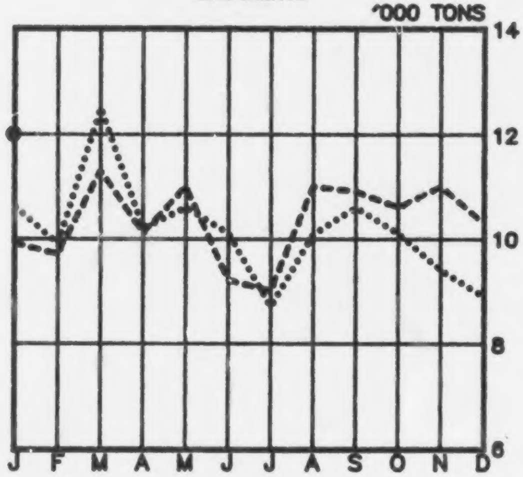
COATED PAPER

SHIPMENTS



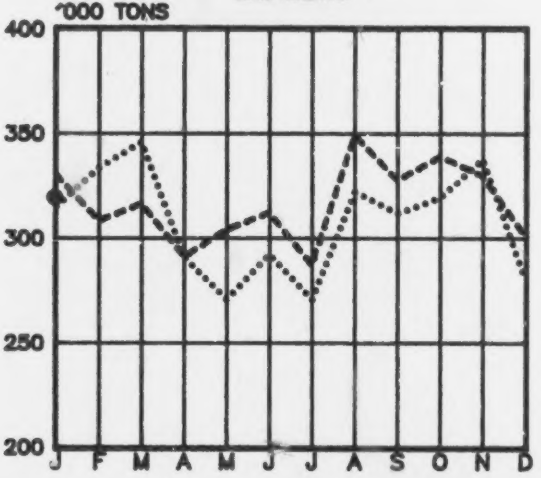
UNCOATED FREE SHEET PAPERS

SHIPMENTS



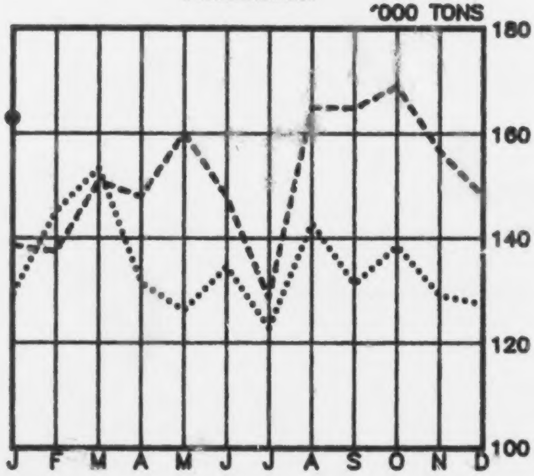
COTTON FIBER PAPER

SHIPMENTS



UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION

1982 .... 1983 ----- 1984 ●

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR		SEPT	OCT.	NOV.	DEC.	Annual Rate Y-T-D	% Change From same Period Last Year
	81	82	83	83	83	83	83	
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	52041	49334	4422	4685	4597	4124	52535	6.5
- Imports	4087	3656	332	431	362	345	4093	12.0
- Exports	3678	3395	329	315	252	384	3644	7.3
- New Supply	52450	49595	4425	4801	4708	4085	52985	6.8
Dissolving Pulp - Production	1353	1092	91	113	117	106	1261	15.4
- Imports	248	186	11	16	7	21	192	3.1
- Exports	784	631	30	77	61	72	647	2.4
- New Supply	818	647	72	52	63	54	806	24.6
Paper Grades Chemical Pulp - Production	41445	39478	3586	3777	3704	3297	42356	7.3
- Imports	3655	3302	306	394	329	305	3706	12.2
- Exports	2870	2736	294	237	189	310	2958	8.1
- New Supply	42230	40044	3598	3934	3843	3292	43105	7.6
Groundwood and Thermo-Mech. - Production	5320	5064	427	449	443	419	5067	0.1
- Imports	183	167	15	21	26	20	195	16.5
- Exports	24	27	4	1	2	2	40	46.1
- New Supply	5478	5204	438	469	467	436	5222	0.3
Semi-Chemical - Production	3824	3699	318	347	334	303	3851	4.1
- Imports	0	0						
- Exports	0	0	------ Included with Groundwood Pulp ------					
- New Supply	3924	3699	318	347	334	303	3851	4.1
MARKET WOOD PULP								
Total Market Wood Pulp - Production	6210	5732	510	590	577	475	6416	11.9
- Imports	2924	2443	218	317	238	293	2845	20.6
- Exports	3352	3143	281	279	249	315	3422	8.9
- New Supply	5782	5031	448	628	567	453	5839	18.0
Dissolving Pulp - Production	1352	1089	91	111	116	106	1260	15.7
- Imports	241	194	13	21	13	23	210	8.0
- Exports	787	675	47	53	58	79	698	3.4
- New Supply	806	608	58	79	72	50	772	26.8
Paper Grades Chemical Pulp - Production	4857	4643	418	478	459	368	5144	10.8
- Imports	2634	2202	201	289	222	286	2898	22.5
- Exports	2555	2468	234	227	191	237	2724	10.4
- New Supply	4936	4377	385	540	490	398	5117	16.9
Groundwood Pulp and All Other - Production	2	1	1	1	1	1	12	1400.0
- Imports	49	46	4	7	4	4	38	-18.1
- Exports	10	0	0	0	0	0	0	-75.0
- New Supply	40	47	5	8	5	5	50	6.7

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

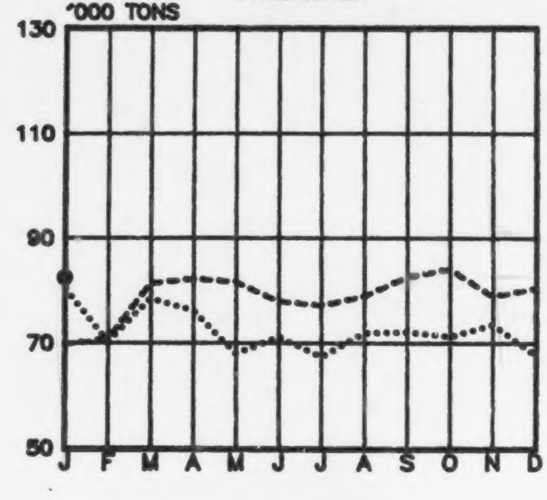
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	64573	61738	5562	5864	5756	5272	65833	6.6
Total Wood Pulp	50698	48163	4360	4827	4481	4115	51294	6.5
Waste Paper	13875	13565	1202	1337	1275	1157	14538	7.2
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	188	177	193	186	192	172	172	-2.9
Market Pulp at Pulp Mills	393	437	420	449	484	380	380	-13.1
Mkt Pulp at Ppr. & Bd. Mills *	454	429	466	476	499	522	522	21.7
Waste Paper at Paper &Bd. Mills	1211	1022	876	864	864	920	920	-10.0
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	33	37	31	30	34	26	26	-29.7

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group; API. Waste Paper Data, Paper Recycling Committee, API.

* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

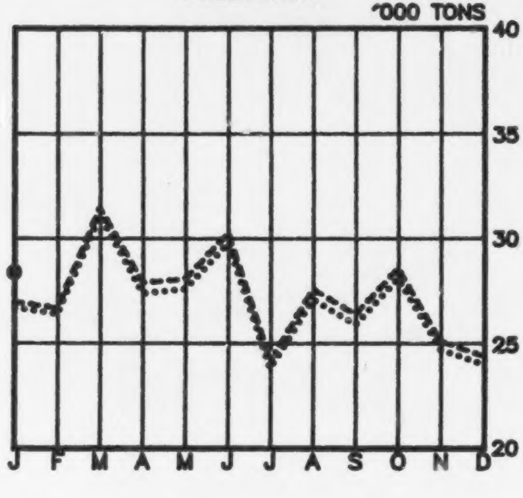
BLEACHED BRISTOLS

PRODUCTION



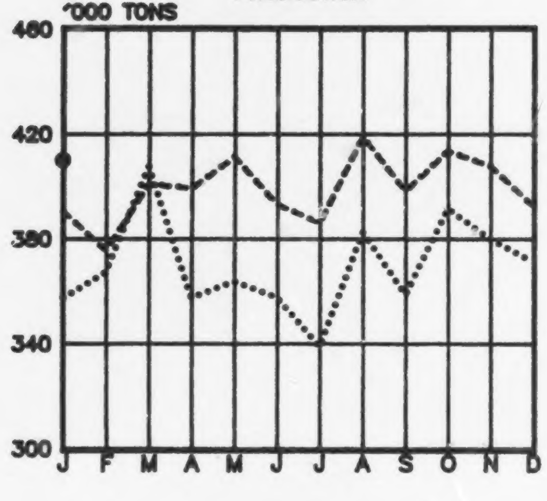
THIN PAPER

PRODUCTION



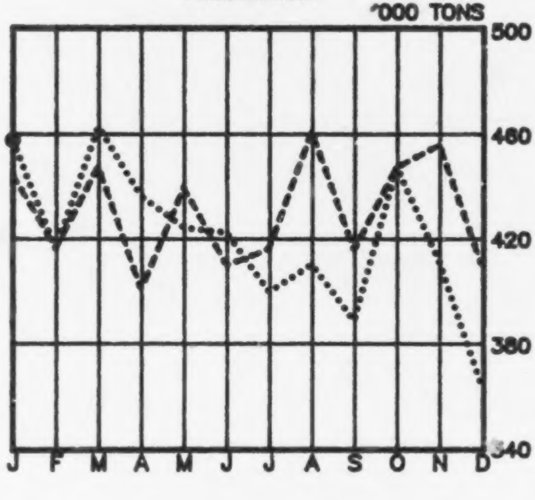
TISSUE PAPER

PRODUCTION



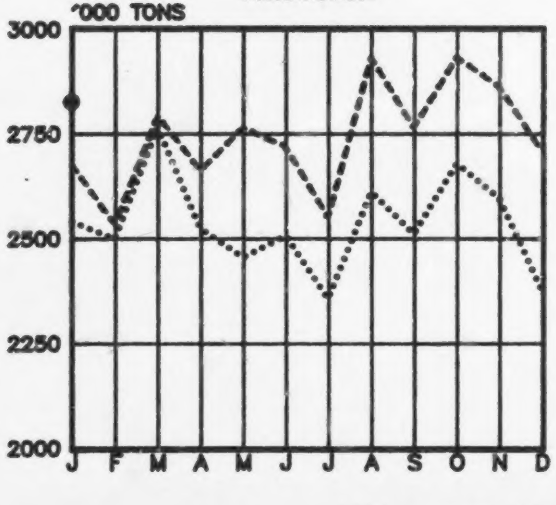
NEWSPRINT

PRODUCTION



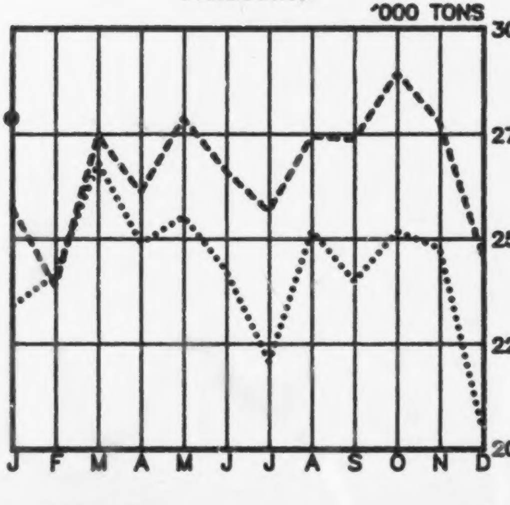
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1982 ········ 1983 ----- 1984 ●

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 81	YEAR 82	SEPT 83	OCT. 83	NOV. 83	DEC. 83	Annual Rate Y-T-D 83	% Change from same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	79547	78518	7286	7691	7172	6691	84475	7.6
	- Total Consumpt.	79747	79039	7203	7534	7267	6741	85442	8.1
	- Residues *	30590	31152	2846	3010	2802	2506	32755	5.1
	- Inventories	6045	5426	5051	5430	5266	5229	5229	-3.6
So. Atlantic	- Total Receipts	24681	23769	2240	2298	2150	2067	25736	8.3
	- Total Consumpt	24815	23725	2250	2287	2153	2020	25847	8.9
	- Residues *	8770	8273	722	724	671	613	7804	-4.5
	- Inventories	1051	1165	1139	1180	1103	1163	1163	-0.2
Northeast	- Total Receipts	7803	7283	588	649	646	619	7051	-3.2
	- Total Consumpt	7712	7221	557	642	663	600	7274	0.7
	- Residues *	1362	1452	103	115	117	107	1199	-17.4
	- Inventories	635	652	504	537	543	577	577	-11.5
South Central	- Total Receipts	27744	26510	2621	2753	2538	2215	29409	10.9
	- Total Consumpt	27687	27153	2486	2561	2479	2282	29152	7.4
	- Residues *	8823	8616	813	852	778	645	9216	7.0
	- Inventories	1825	1346	1420	1628	1627	1538	1538	14.1
North Central	- Total Receipts	5850	5801	524	565	493	527	6265	11.9
	- Total Consumpt	5708	5706	514	553	551	494	6343	11.2
	- Residues *	1439	1517	151	181	146	145	1822	20.1
	- Inventories	1106	825	851	870	623	851	851	-8.0
West	- Total Receipts	13669	15356	1313	1425	1345	1263	16014	4.3
	- Total Consumpt	13825	15234	1386	1491	1421	1345	16826	10.5
	- Residues *	10096	11294	1057	1138	1089	986	12612	11.7
	- Inventories	1428	1338	1137	1215	1170	1102	1102	-17.6

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 82 Tons	YEAR 82 $000	NOV. 83 Tons	NOV. 83 $000	DEC. 83 Tons	DEC. 83 $000	Annual Rate Y-T-D 83	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	87043	4711	23330	1230	38168	2009	155124	78.2
Pulpwood Chips	1878793	51374	190828	4803	123588	2889	1987168	18.4
Wood Pulp, Total	3364194	1386688	354823	128872	318386	117862	3755201	11.6
Waste Fibrous Materials, Total	129749	23289	15108	2708	11854	2254	157732	21.8
Paper, Board & Products, Total	7707948	3272224	750061	316093	688468	291646	8274914	7.4
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	7665489	3201221	745024	306254	683530	282802	8221322	7.3
Paper Paperboard & Products	7327112	3192595	718325	308843	688022	286410	7846516	7.1
Paper & Paperboard, Only	7284683	3121592	714288	299104	663086	277567	7782824	7.0
Paper, Total	7171243	3093475	699116	295237	648244	273601	7633585	6.4
Newsprint	6484605	2730256	622144	254820	583489	238378	6845135	5.6
Printing, Writing & Rel. Pap.	612760	310154	68997	35256	57831	30743	695907	13.6
Pack. & Ind. Conv. Paper	66300	46060	6873	4165	5836	3573	79208	19.5
Special Industrial Paper	1899	3123	177	292	175	300	2732	43.9
Tissue Paper	5680	3882	825	604	913	607	10602	86.7
Paperboard, Total	113420	28117	15172	3867	14841	3966	159339	40.5
Convtd Paper&Paperbd Products	42449	71003	5037	9839	4936	9844	53592	26.2
Wet Machine Board	1302	737	191	130	242	150	3036	133.2
Construction Paper & Board	379533	78892	30545	7020	20203	5086	425362	12.1

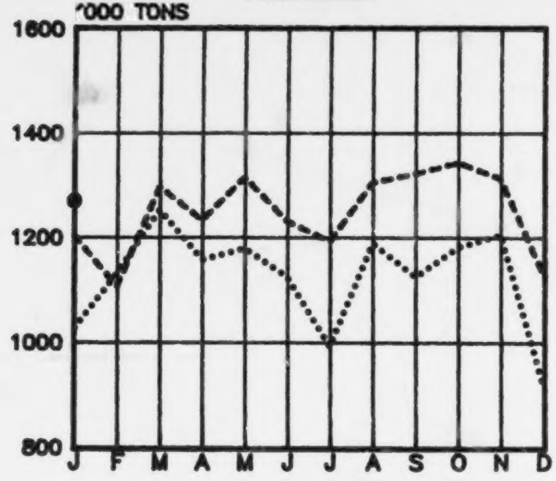
EXPORTS TO CANADA

Pulpwood, Roundwood (in cords of 128 cubic feet)	107700	7283	5528	356	5396	287	68965	-36.0
Pulpwood Chips	27650	1500	2605	122	1167	53	38246	38.3
Wood Pulp, Total	116067	54691	10537	4681	7971	3665	133633	15.1
Cotton Pulp & Other Pulp	6790	4152	743	413	676	423	9567	40.9
Waste Paper	271395	32555	31200	3556	29513	3344	346809	27.8
Paper, Board & Products, Total	583206	442437	57302	42835	49519	37683	659229	13.0
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	383566	275107	37073	29006	30434	24970	448117	16.8
Paper, Paperboard & Products	561355	433689	54810	41797	47276	36775	628109	11.9
Paper & Paperboard, Only	361714	266359	34580	27968	28191	24062	416996	15.3
Paper, Total	188370	185357	19947	20683	18089	19090	230771	22.5
Newsprint	3037	2671	251	187	500	494	4312	42.0
Printing, Writing & Rel. Pap.	113443	95899	10946	9422	9626	8625	125110	10.3
Pack. & Ind. Conv. Paper	20289	13615	4319	2770	2987	1796	34403	69.6
Special Industrial Paper	47736	70111	4285	8113	4858	8005	63390	32.8
Tissue	3864	3062	146	180	121	170	3556	-8.0
Paperboard, Total	173345	81001	14633	7285	10101	4972	186226	7.4
Convtd Paper&Paperbd Products	199640	167330	20230	13830	19086	12713	211112	5.7
Wet Machine Board	4365	2537	253	178	599	304	5289	21.2
Construction Pap & Bd. E	17487	6212	2239	860	1645	603	25831	47.7

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

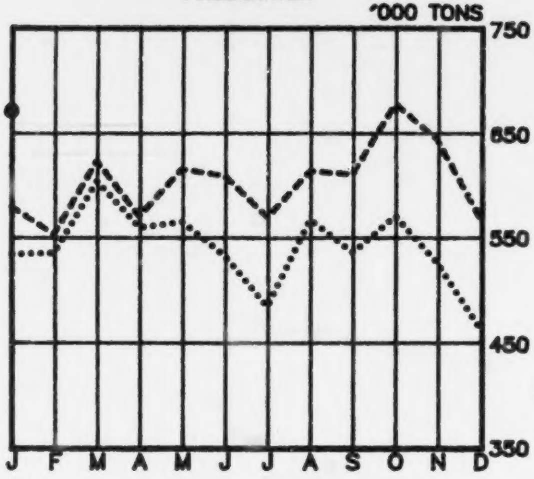
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



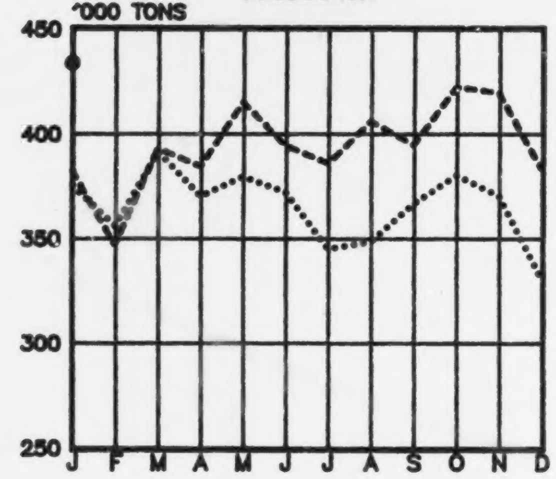
RECYCLED PAPERBOARD

PRODUCTION



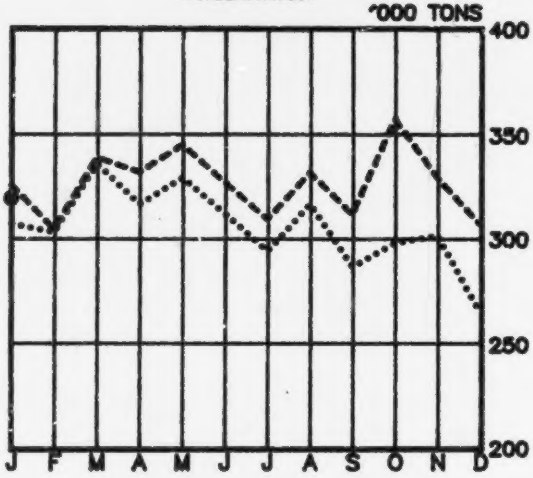
SEMICHEMICAL PAPERBOARD

PRODUCTION



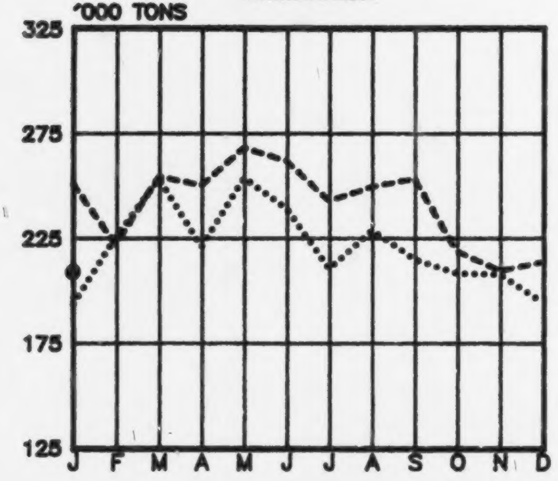
SOLID BLEACHED PAPERBOARD

PRODUCTION



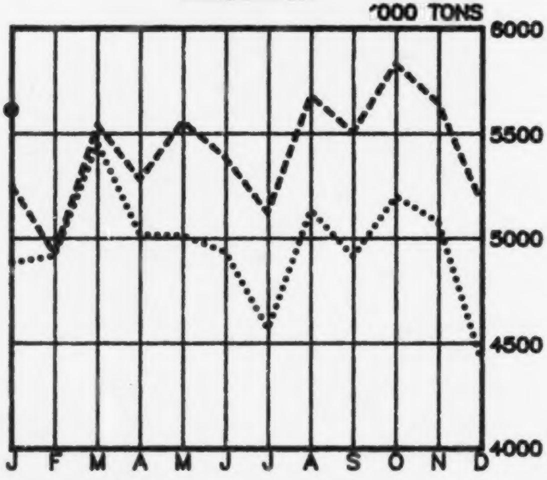
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1982 ········ 1983 ----- 1984 ●

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 82 Tons	$000	NOV. 83 Tons	$000	DEC. 83 Tons	$000	(1) Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood Roundwood (cords)	87043	4711	23330	1230	38169	2009	155124	78.2
Pulpwood Chips	1682414	51538	190828	4603	123606	2899	1991453	18.4
Total All Imports	11824303	5208303	1232674	523479	1132767	489442	13248280	12.0
Wood Pulp Total	3655786	1483241	361989	131086	344834	126308	4093436	12.0
Waste Paper	74332	9450	9419	991	6902	784	100410	35.1
Other Fibrous Materials	70176	24212	6709	2360	5884	1993	68003	-3.1
Paper Board & Products Total	8024009	3682401	854557	389042	775146	360358	8886431	12.0
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	7917418	3344205	839815	351972	760110	320669	8834560	11.6
Paper Pbd & Prds ex Cnst&WMB	7602651	3594201	820158	380985	751166	354275	8509180	11.9
Paper & Paperboard Only	7496060	3256005	805415	343915	736130	314586	8357309	11.5
Paper Total	7381252	3226307	789810	339690	720739	310254	8189491	10.9
Newsprint	6530676	2748652	633024	258660	582616	241444	6919348	6.0
Printing & Writing	764095	408551	144072	72663	119012	62226	1151011	50.6
Uncoated Groundwood	514882	248196	87917	38263	61685	28240	732237	42.2
Uncoated Book	142626	80105	18337	11045	17626	11007	154147	8.1
Coated Print.& Imprem. Pap	69010	46763	23310	14456	20699	12576	162441	135.4
Bristols	391	416	4	5	116	152	471	20.5
Writing and Similar Paper	25893	19225	10788	5963	15442	8010	81458	214.6
Thin (except Cigarette)	11293	13846	3717	2930	3443	2241	20258	79.4
Total Pkg & Other Paper	79653	63863	11698	7683	8046	5814	107515	35.0
Unbleached Kraft Paper	23078	10749	4390	1979	2809	1151	42013	82.0
Other Pkg. & Indust. Paper	56575	53114	7309	5704	5237	4664	65503	15.8
Tissue	6828	5241	1015	685	1065	771	11617	70.1
Paperboard, Total	114808	29698	15605	4224	15390	4332	167818	46.2
Test or Containerboard	35983	8459	3378	1078	4713	1422	48119	33.7
Semi-Chemical Corrugating	47295	9679	8307	1799	6356	1436	69564	47.1
Other Paperboard	31531	11560	3920	1347	4322	1474	50136	59.0
Convtd Paper&Paperbd Products	106591	338196	14742	37070	15036	39689	151872	42.5
Paper Products, Total	92059	307245	12723	32287	12771	35320	124816	35.6
Paperboard Products, Total	14532	30951	2019	4784	2265	4369	27055	86.2
Wet machine Board	1842	1239	324	215	308	172	3584	84.5
Construction Paper & Board	419515	86981	34076	7842	23672	5911	473687	12.9
Notes								
Other: No Weight Avail. ($000)		135346		13529		12217	148251	20.9
Total Imports Incl. Other($000)		5344649		537008		501659	5874392	8.2

EXPORTS

	YEAR 82 Tons	$000	NOV. 83 Tons	$000	DEC. 83 Tons	$000	(1)	
Pulpwood, Roundwood (cords)	111692	7475	5528	356	5396	287	69497	-37.6
Pulpwood Chips	2860133	231140	223421	15071	175841	11252	2554176	-10.7
Total All Exports	9872299	4315138	938921	361881	979248	374453	10888848	10.3
Wood Pulp, Total	3394648	1414558	251744	85347	383980	147529	3643863	7.3
Cotton Pulp and Other Pulp	104560	72327	8498	6191	9697	6167	102863	-1.6
Waste and Old Paper	2127050	238934	274195	33780	225850	27556	2573716	21.0
Paper, Board & Products, Total	4246041	2589319	404484	226363	358641	183202	4568407	7.6
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	3670413	1754352	351492	160422	310122	135633	3884277	8.6
Paper, Pbd & Prod ex Cnst&WMB	4187119	2558843	398586	223308	352837	188856	4501039	7.5
Paper & Paperboard, Only	3611491	1723977	345594	157368	303417	132387	3916810	8.5
Paper, Total	840445	679069	60317	50719	57598	48207	773414	-8.0
Newsprint	307657	142964	22465	10031	23308	9855	294870	-4.2
Printing & Writing	246617	238135	18749	18649	14796	16058	201798	-18.2
Uncoated Groundwood	55916	48430	3965	3316	2166	2775	37289	-33.3
Clay Coated Paper	81373	65485	7661	5804	6657	5268	78182	-2.7
Uncoated Free Sheet	70599	75451	4873	7059	4387	5948	59125	-16.3
Other Printing & Writing	38729	49769	2249	2471	1585	2067	26202	-32.3
Total Pkg. & Other Paper	262861	271556	17762	20345	18656	21134	260865	-0.8
Unbleached Kraft	89068	38003	8705	3498	7986	3275	116170	30.4
Other Pkg. & Indust. Paper	173793	233553	9057	16847	10668	17859	144695	-16.7
Tissue	23310	25415	1342	1694	837	1160	15881	-31.8
Paperboard, Total	2771046	1044908	285277	106648	245819	84180	3143496	13.4
Solid Wood Pulp	2612568	970814	275627	100666	236391	79852	2993868	14.6
Total Linerboard	1886193	542304	208695	57460	168312	45878	2254538	19.5
Bleached Kraft Linerboard	67595	26626	22866	10040	15880	6713	160253	137.1
Unbleached Kraft Linerbd	1818599	515677	185829	47420	152431	39165	2094285	15.2
Other Unbleached Kraft	139219	60780	5287	2888	18632	8477	107141	-23.0
Other Bleached Kraft	525733	349615	56645	36990	44512	25892	558431	6.2
Semi-Chemical Corrugating	61422	18116	5000	1328	6936	1704	73758	20.1
Recycled Paperboard	158478	74094	9650	5983	9429	4228	149628	-5.6
Convtd Paper&Paperbd Products	575628	834966	52992	65940	49519	57569	584129	1.5
Paper Products, Total	315805	591183	27300	44891	25577	38212	311722	-1.3
Paperboard Products, Total	259823	243804	25692	21050	23943	19358	272408	4.8
Wet Machine Board	11089	5939	776	362	1253	502	11622	4.8
Construction Paper & Board E	47833	24437	5122	2693	5452	2745	55746	16.5
Notes								
Other: No Weight Avail. ($000)		8990		714		636	7965	-11.4
Total Exports Incl. Other($000)		4324128		362395		375069	4229475	-2.2

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1967 = 100

	82	83	OCT.	NOV.	DEC.	JAN.	Annual Rate Y-T-D 83	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	273.2	271.1	273.0	276.3	276.8	280.0	280.0	4.2
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	275.9	273.0	274.0	277.4	277.9	281.2	281.2	3.6
Total Wood Pulp	379.1	346.8	348.6	352.6	351.3	364.4	364.4	5.1
Total Paper	286.3	282.2	286.6	287.9	288.9	294.3	294.3	5.4
Total Paper, exc. Newsprint	278.3	276.7	282.6	284.3	286.0	295.1	295.1	7.7
Newsprint	315.8	302.9	309.6	309.6	309.6	309.6	309.6	3.5
Total Paperboard	254.9	250.6	255.5	257.9	259.5	262.2	262.2	7.8
Total Paper and Paperboard #	276.5	272.2	276.8	278.5	279.7	284.2	284.2	6.0
Converted Products	264.4	265.3	266.5	267.8	268.0	269.4	269.4	1.7
Waste Paper	121.1	158.2	216.4	210.2	211.5	211.5	Not Available	
All Commodities	299.3	303.1	306.3	305.6	306.0	308.1	308.1	2.7
Industrial Commodities	312.3	315.7	318.7	318.3	318.4	319.2	319.2	1.7

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

to 8.4 million tons, 11.5% over the year-ago total; with the construction grades and all products included, the total volume was 9.0 million tons, 12% over the total imported in 1982.

Within the paper grades, newsprint imports in 1983, at 6.9 million tons, showed a 6% increase. This compares to the 2% increase shown in the domestic production of newsprint. The imports of uncoated groundwood paper, reflecting the intense demand for such products as periodicals and directories, amounted to 732,000 tons, 40% over the year-earlier total. Nearly two-thirds of imports came from Canada, another 28% from Finland. Norway, Denmark and Sweden sent about 50,000 tons to the U.S. Imports accounted for 33% of the total new supply of uncoated groundwood papers in 1983, and were equivalent to nearly half the domestic production total.

Imports of writing papers showed a significant gain, more than doubling from the year-earlier level. The total however, was only 81,000 tons. When this 81,000 tons is combined with imports of 154,000 tons of uncoated book paper, the total - 235,000 tons - was equivalent to 2.6% of the U.S. production of uncoated free sheet papers. Coated paper imports also showed a major gain, increasing 135% from its 1982 level, equivalent to 2.8% of the total production of coated papers. Imports of the other grades of paper and paperboard also showed large percentage gains from the year-earlier levels, but in all cases the totals were equivalent to only small percentages of domestic production.

Continued on Page 11

Continued from Page 10

Exports of paper plus paperboard in 1983 also rose: at 3.9 million tons, the total was 8.5% over the 1982 level. When construction grades and all products are taken into account, the total amounted to 4.6 million tons, 7.6% over its 1983 level.

In contrast to imports, exports of nearly all the paper grades showed significant declines from the year-ago total. Total paper exports, at 773,000 tons, were down 8%. This was offset however, by major gains in paperboard exports: the Bureau of Census reported an export total at 3.1 million tons, 13.4% over the comparable 1982 level.

In dollar terms, imports of paper, paperboard and products amounted to $5.67 billion; exports $4.23 billion.

New Supply

On the basis of the production, imports and exports data noted above, total new supply of paper, paperboard and products (excluding the construction and wet machine board grades, for which no current production data are available) amounted to 68.9 million tons, 9.5% above the 1982 total and 4.9% above the 1981 level. The previous high was reached in 1979 at 66.4 million tons; the 1983 total was 3.7% above this level.

Real gross national production in 1983, by way of contrast, rose only 3.3% although it too established a new high. Over the course of the full business cycle, new supply tends to fall more sharply on the downswing and increase faster on the upswing, as users adjust their inventories to changes in the final consumption of paper. The upsurge in new supply in 1983 brought the ratio of new supply to real GNP up nearly 6% from the 1982 ratio and the highest level achieved since 1976. At 44,870 tons per billion dollars, it was 0.1% above the 1976-1979 average level.

The developing strength in the trend of new supply relative to real GNP during 1983 is shown more clearly by an analysis of the quarterly data. In the first half of 1983, for example, the annualized ratio between new supply and real GNP was 44,000 tons per billion dollars. The comparable fourth quarter figure was 46,600 tons per billion dollars of real GNP. This was the highest achieved since 1974, when the average for the year was 48,300 tons per billion dollars of real GNP.

Continued on Page 12

Continued from Page 11

Sales and Earnings

Both sales and net profits after taxes of paper and allied products companies rose steadily during 1983 from the recession levels of 1982. On the basis of reports from 32 companies, as published in the press, fourth quarter sales of these companies were 19% above their year-ago total. This brought the 1983 gain for these companies to 12.7% above that of 1982. These companies accounted for 66% of the total value of sales of all paper and allied products companies.

Earnings also rose steadily during 1983, bringing the 1983 total 77% above the 1982 recession level. For 1983 as a whole, these companies showed a 3.7% margin on sales, compared to 2.4% in 1982.

Similar data for four forest products companies with major holdings in the paper industry showed 1983 sales up 19%, profits after taxes up 67% and the margin on sales rising from 1.9% in 1982 to 2.7% in 1983.

February 29, 1984	Full Year		INDUSTRY DATA			1984 Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			1983		1984		
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1982	1983	November	December	January		
Total Production (API).......| excluding |...	59488	64870	5642	5173	5603	67239	6.8
Total Seasonally Adjusted....|construction|...			5668	5759	5668	68019	6.8
Imports (including Products).| and wet |..E	7603	8509	820	751	N.A.	N.A.	N.A.
Exports (including Products).| machine |..E	4187	4501	359	353	N.A.	N.A.	N.A.
Apparent Consumption.........| grades |...	62904a	68878 b	6089	6157	5668	73416c	8.9
Paper Production % Tonnage Capacity...........	87.8s	93.5Rs	96.1	87.9	92.1	94.4sh	-
Paperboard Production % Tonnage Capacity......	82.1s	89.7 s	93.1	79.8	90.3	94.3s	-
			November	December	January		
IMPORTS.....|Including Construction and |.....	8024	8986	855	775	N.A.	N.A.	N.A.
EXPORTS.....| WMB Grades (excl. HPB) |.....	4246	4568	404	360	N.A.	N.A.	N.A.
MARKET WOOD PULP PRODUCTION - Tons (000)........	5732	6416	577	475	N.A.	N.A.	N.A.
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	49334	52535	4597	4124	N.A.	N.A.	N.A.
WOOD PULP IMPORTS - TONS (000)..................	3656	4093	362	345	N.A.	N.A.	N.A.
WOOD PULP EXPORTS - TONS (000)..................	3395	3644	252	384	N.A.	N.A.	N.A.
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			November	December	January		
Wood Pulp.............|consumption for|.....	48183	51294	4481	4115	N.A.	N.A.	N.A.
Waste Paper...........|construction & |.....	13565	14539	1275	1157	N.A.	N.A.	N.A.
TOTAL..........| WMB grades |.....	61748	55833	5756	5272	N.A.	N.A.	N.A.
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79039	85442	7267	6741	N.A.	N.A.	N.A.
EMPLOYMENT (000)			November	December	January		
Paper and Allied Products..........Total......	662.0	658.7	667.3	669.5	667.1	667.1	2.8
Pulp, Paper and Board Mills........Total.....E	257.8	253.7	255.6	256.5	255.2	255.2	0.9
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	9.32	9.93	10.19	10.24	10.23	10.23	6.0
Pulp, Paper Mills...........................E	10.88	11.71	12.14	12.13	12.12	12.12	7.4
Paperboard Mills............................E	11.13	12.12	12.51	12.69	12.70	12.70	9.0
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q3	1983 Q4	1984 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.97	6.20	6.18	6.30	6.90	6.90	14.6
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			November	December	January		
|IN PULP, PAPER |...Production Workers..........	109.9	121.5	123.4	125.8	123.2	123.2	2.2
|AND BOARD MILLS|...All Employees..............	108.3	120.0	122.6	125.2	122.7	122.7	3.8
PAPER AND ALLIED PRODUCTS (Million $)			November	December	January		
Industry Shipments (Dept. of Commerce)*.......	78992	85774	7638	7813	N.A.	N.A.	N.A.
Pulp, Paper and Paperboard*..................	33523	36293	3186	3287	N.A.	N.A.	N.A.
Inventories (End of Period) - Total Industry*.	8607	8824	8613	8824	N.A.	N.A.	N.A.
Pulp, Paper and Paperboard*..................	3365	3255	3300	3255	N.A.	N.A.	N.A.
			1983 Q3	1983 Q4	1984 Q1		
Sales (Corporations Only, FTC)................	60293	65095K	16797	N.A.	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC).............	1460	2216K	678	N.A.	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC).........	2379	2653K	688	N.A.	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)............	26705	27381L	27381	N.A.	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			November	December	January		
Pulp, Paper & Products, ex. Building Grades...	273.2	271.1	276.3	276.8	280.0	280.0	4.2
Wood Pulp....................................	379.1	346.8	352.6	351.3	364.4	364.4	5.1
Waste Paper..................................	121.1	158.2	210.2	211.5	211.5	Not Available	
Paper..	286.3	282.2	287.9	288.9	294.3	294.3	5.4
Paperboard...................................	254.9	250.6	257.9	259.5	262.2	262.2	7.8
PAPER DEMAND (INDEXED: 1967=100)			November	December	January		
Total Paper Production *......................	145.4	157.3	165.2	165.5	163.5	163.5	5.8
Paper New Supply *..........................	135.1	147.6	158.5	155.9	156.4	156.4	9.1
Total End - Use Index *.....................	149.5	158.0	165.8	167.0	168.4	168.4	13.2
Production of Nondurable Goods *...(19%)..	156.1	168.2	175.3	175.5	176.6	176.6	12.2
Disposable Income (Constant $) *...(23%)..	157.8	163.4	167.6	168.4	169.2	169.2	5.6
Total Printing and Publishing *...(58%)..	144.0	152.5	162.0	163.7	165.4	165.4	17.1
Trend Factor	-------------------------Not Available-------------------------						
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	127.6	140.2	146.4	151.0	148.0	148.0	7.8
Production for Domestic Use	122.7	134.9	143.5	148.1	145.3	145.3	10.5
Total End - Use Index *....................	139.5	148.9	155.4	156.7	158.3	158.3	13.7
Production of Consumer Goods *...(60.49%)	142.7	151.8	156.5	158.0	159.6	159.6	11.1
Production of Equipment *...(6.62%)	139.8	140.7	149.1	150.7	152.6	152.6	12.9
Production of Materials *...(32.89%)	133.7	145.3	154.7	155.5	157.0	157.0	18.9
Trend Factor	-------------------------Not Available-------------------------						
NEWSPRINT MARKETS			November	December	January		
Consumption by Publishers - Tons (000)........	11141	11661	1086	1043	963	11561	8.7
Newspaper Pub. and Printing Empl. Total(000)..	417.5	421.6	428.7	429.9	N.A.	N.A.	N.A.
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	121617	133047	14737	11790	N.A.	N.A.	N.A.
WHOLESALERS SALES AND INVENTORIES (Million $)(j)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	22776	24939	2266	2353	N.A.	N.A.	N.A.
Inventories (End of Period)	1885	2393	2364	2393	N.A.	N.A.	N.A.
FIBRE BOX DATA (Fibre Box Association)			November	December	January		
Fibre Box Shipments (Million square feet)......	235185	252876	21025	19874	22070	264840	10.4
Container'bd Inventory at Mill & Plant(000Tons)	2584	2442	2415	2442	2404	2404	-3.3
RETAIL TRADE (Million $)							
Total Retail Sales *..........................	1074467	1171328	102024	102151	104414	1252968	13.1
Nondurable Goods Stores Sales *..............	753568	793190	67883	67215	69434	833208	8.5
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	138.6	147.6	155.5	156.4	158.1	158.1	15.1
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	299.3	303.1	305.6	306.0	308.1	308.1	2.7
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	289.1	298.4	303.1	303.5	305.2	305.2	4.1
			November	December	January		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	344.8	387.9	376.4	387.9	N.A.	N.A.	N.A.
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1983 Q3	1983 Q4	1984 Q1		
G.N.P. or Expenditure - Current $.............	3073.0	3310.8	3362.2	3437.3	N.A.	N.A.	N.A.
G.N.P. or Expenditure - 1972 $................	1485.4	1535.1	1553.4	1571.9	N.A.	N.A.	N.A.

lb/capita

	Par&Parbd	Othr	Totl	Popul(mil)
.a -	543 + 15		= 558	232.0
.b -	589 + 18		= 607	234.2
.c -	625 + 18		= 643	234.9

.E - Last month estimated by API
.e - estimated by API
L - END OF THIRD QUARTER 1983

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter
K - ANNUAL RATE, FIRST 3 QUARTERS 1983

R - Revised
* - Seasonally Adjusted

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

FEB. 27, 1984

PRODUCTION (000 TONS)

	Jan. 84	Dec. 83	Jan. 83	Jan 84 -	Jan. 83	% Change 84/83
PAPER GRADES	P	R				
Newsprint	459	410	444	459	444	3.4
Printing & Writing	1481	1458	1373	1481	1373	7.9
Uncoated Groundwood (s)	125	121	117	125	117	7.0
Coated Paper (s)	498	496	442	498	442	12.6
Uncoated Free Sheet Paper (s)	737	726	708	737	708	4.1
Thin Paper (s)	28	24	27	28	27	3.7
Cotton Fiber Paper (s)	12	10	10	12	10	18.2
Bleached Bristols (s)	82	81	70	82	70	17.3
Tissue Paper	410	393	391	410	391	5.0
Total Pkg & Other Paper	481	449	468	481	468	2.6
Unbleached Kraft Packaging & Indl. Converting (s)	317	301	330	317	330	-3.9
Other Paper *	163	148	138	163	138	18.0
TOTAL PAPER	2831	2709	2676	2831	2676	5.8
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1352	1205	1284	1352	1284	5.3
Unbleached Kraft Linerboard	1262	1132	1204	1262	1204	4.8
Other Unbl. Kraft Paperboard	90	72	81	90	81	11.7
Semichemical Paperboard	431	384	382	431	382	12.8
Bleached Paperboard	320	307	325	320	325	-1.8
Recycled Paperboard	670	568	579	670	579	15.6
TOTAL PAPERBOARD	2772	2463	2572	2772	2572	7.8
TOTAL PAPER AND PAPERBOARD	5603	5173	5248	5603	5248	6.8

WOOD PULP (ALL GRADES)	Dec. 83	Nov. 83	Dec. 82	Jan - Dec. 83 -	82	% Change 83/82
Dissolving & Special Alpha	106	117	66	1261	1092	15.4
Bleached Sulfite	110	106	85	1307	1242	5.2
Unbleached Sulfite	23	26	27	310	345	-10.0
Bleached & Semi-Bl. Sulfate	1652	1842	1450	21105	19721	7.0
Unbleached Sulfate	1512	1730	1267	19635	18170	8.1
Semichemical	303	334	264	3851	3700	4.1
Groundwood and Thermomechanical	419	443	386	5067	5064	0.1
TOTAL PULP DIVISION DATA	4124	4597	3545	52535	49334	6.5

(s) - Shipments　R - Revised　E - Estimate
P - Preliminary　* - Revised series based on A.P.I. data.

4/9/84
A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 62 - No. 3 MARCH 1984

Paper and Paperboard Production: Holding High

Production of paper and paperboard in the first two months of 1984 held close to the near-capacity rates established in the last four months of 1983. The 1984 seasonally adjusted production rate was over 68 million tons per year, equivalent to more than 95% of the available capacity. These were the highest January and February totals achieved, surpassing the previous highs of 1980 by 7%. Relative to the year-ago total, the seasonally adjusted rate of production was up 8.9%. Because of leap year, 1984 had one more day than 1983 so that the gain in actual tonnage production for the two-month period was 10.8%.

All the major grades of paper and paperboard showed strength. Among the paper grades, for example, printing-writing papers increased 13% over the year-ago level, with the seasonally adjusted rate in excess of 18 million tons per year.

Groundwood, coated and uncoated free sheet papers all showed major gains in early 1984 over 1983 and all were operating at rates well above the 1983 average levels. While these gains are well above that of total economic activity as measured for example, by real gross national product, they are consistent with the trend in total printing and publishing activity as reported by the Federal Reserve Board. Real GNP in the first quarter of 1984, as reported in the flash report of the Department of Commerce, rose at the rate of 7.2% per year over its fourth quarter 1983 level; total printing and publishing activity in the first two months of 1984, as reported by the Federal Reserve Board, was 16% over its year-ago level. The Federal Reserve Board derives its measures of printing of periodicals, books, cards and job printing from kilowatt hours of electricity consumed as reported to the Federal Reserve System. The data are shown in the yellow Industry Data Sheet attached to this report.

Continued on Page 2

AMERICAN PAPER INSTITUTE • 260 Madison Avenue, New York, N.Y. 10016

Continued from Page 1

Production of newsprint also operated at record-high levels, with the January-February 1984 total 5.9% above the comparable 1983 level.

Production of unbleached kraft paper showed only a modest gain over its year-ago level. Production of the other grades of packaging and industrial converting papers however, which include specialty packaging and special industrial papers, is showing a strong gain over its year-ago rate.

Production of all the major paperboard categories, with the exception of production for export, has been particularly strong in the first two months of 1984. Production of containerboard for domestic use for example, used in the manufacture of corrugated shipping containers, was up 15% over its year-ago total at a record-high rate in excess of 20 million tons per year. This gain is comparable to the 14% gain in shipments of corrugated shipping containers for the same period as reported by the Fibre Box Association. Strength in demand for fibre boxes are evident in all regions of the U.S., pointing to the widespread nature of the economic recovery. The Association also reported that inventories of containerboard at fibre box plants and paperboard mills as of March 1, 1984, on a tonnage basis, was a shade below the March 1, 1983 level; on a weeks of supply basis, inventories were down to 6.2 weeks compared to 7.2 weeks one year earlier.

Production of the boxboard grades was also strong, with total production of boxboard for domestic use in the first two months of 1984, 10% over its year-ago level. This reflected an 11% increase in total folding boxboard production and a 15% increase in production of set-up boxboard. Production of the milk carton and food service grades, however, gained only a little, with weakness in demand for plate, dish and tray stock offsetting the increases recorded in both milk carton and cup stock production.

Production of tube can and drum stock made from recycled paperboard continued to soar, with the total in the first two months of 1984 some 21% above its year-ago level. Similarly, in the non-packaging recycled paperboard grades, production of gypsum wallboard facings, responding to the strength in housing activity, was 47% above its year-ago level, while production of panelboard, used largely in autos, showed a remarkable 68% gain over its year-ago level. However, the rate of panelboard production was only a little above 100,000 tons per year.

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

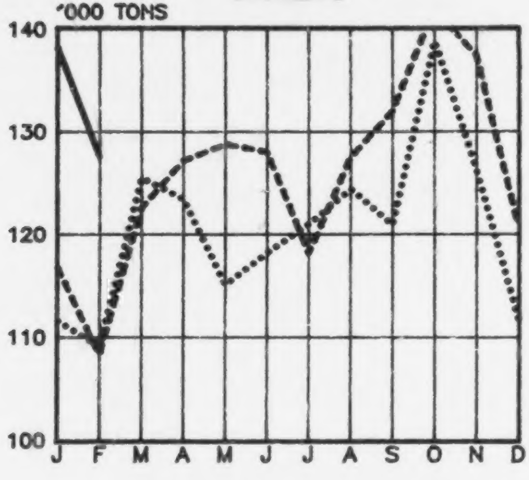
	YEAR 82	 83	NOV. 83	DEC. 83	JAN. 84	FEB. 84	Annual Rate Y-T-D 84	% Change from same Period Last Year
PAPER					R	P		
Newsprint - Production	5042	5167	456	410	459	452	5470	5.9
- Shipments	4988	5153	454	430	457	454	5464	14.7
Printing & Writing	15643	17355	1514	1458	1529	1488	18102	13.0
Groundwood Paper - Shipments	1459	1509	137	121	138	128	1594	18.0
- New Orders	1469	1564	124	122	147	149	1774	28.9
- Unfilled Orders	91	156	153	156	161	189	189	86.1
Coated Paper - Shipments	5032	5743	513	496	514	509	6137	17.7
- New Orders	4998	5850	463	504	511	513	6147	19.3
- Unfilled Orders	325	463	447	463	450	464	464	42.6
Unctd Free Sheet - Shipments	7847	8702	748	726	765	736	9005	10.2
- New Orders	7820	9010	757	735	726	697	8533	1.3
- Unfilled Orders	321	676	657	676	613	576	576	48.6
Thin Paper - Shipments	323	328	25	24	28	29	342	6.1
Cotton Fiber Paper - Shipments	118	124	11	10	11	11	137	16.3
Bleached Bristols - Production	865	948	79	81	73	75	887	4.9
Tissue Paper - Production	4438	4789	408	390	406	365	4745	3.0
Total Packaging & Other Paper	5300	5606	486	449	480	488	5808	6.0
Unbl. Kraft Paper - Shipments	3688	3792	329	301	317	322	3833	0.2
Other Paper - Production	1812	1814	156	148	163	166	1975	19.3
TOTAL PAPER-Production-UnadJ. *	30422	32917	2863	2706	2875	2813	34125	9.1
-Production-S.A. *			2884	2885	2898	2832	34383	7.2
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	22589	24718	2135	1895	2110	2148	25547	11.3
Unbl. Kraft Linerboard (1)	13494	15007	1314	1132	1266	1308	15439	11.4
Production For Export	1931	2163	156	168	154	152	1836	-9.5
Other Unbl. Kraft Paperboard	1040	1061	72	72	91	90	1087	16.5
Semichemical Paperboard	4389	4731	420	384	432	411	5053	15.5
Production For Export	185	198	9	13	17	13	154	-24.0
Solid Bleached Paperboard	3665	3[illegible]18	329	307	322	340	3968	5.0
Production For Export	525	516	44	32	40	42	494	-16.2
Recycled Paperboard	6476	7234	643	568	671	650	7927	16.7
Production For Export	13	21	1	1	1	1	12	-35.9
TOTAL PAPERBOARD-Prod.-UnadJ. *	29065	31951	2778	2463	2781	2799	33475	12.5
- Containerboard Prod.(Dom. Use)	17508	19281	1730	1482	1701	1714	20487	14.6
- Boxboard Prod.(Dom. Use) (2)	5150	5498	477	435	477	487	5787	10.0
- All Other P'bd Prod.(D.U.) (2)	3753	4274	361	333	385	390	4705	24.4
- Total Paperbd Prod. for Export	2654	2898	210	214	208	208	2496	-12.1
TOTAL PAPERBOARD PROD.- S.A. *			2784	2871	2823	2853	34054	10.6
TOTAL PAPER AND PAPERBOARD								
Production - actual *	59488	64868	5642	5169	5655	5611	67600	10.8
Production - S.A. *			5668	5756	5721	5685	68437	8.9

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* NOTE: Year 1984 contains one more day than year 1983.

P Preliminary
R Revised
S.A. Seasonally AdJusted

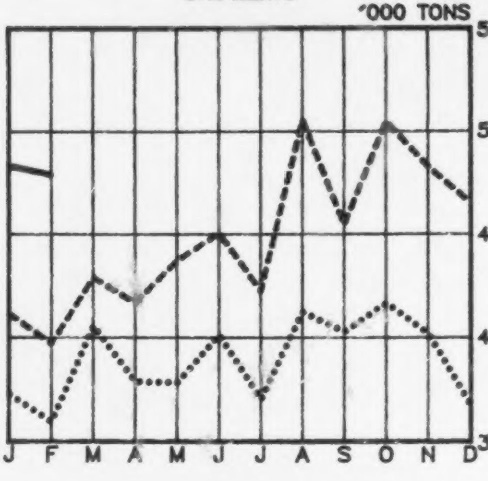
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



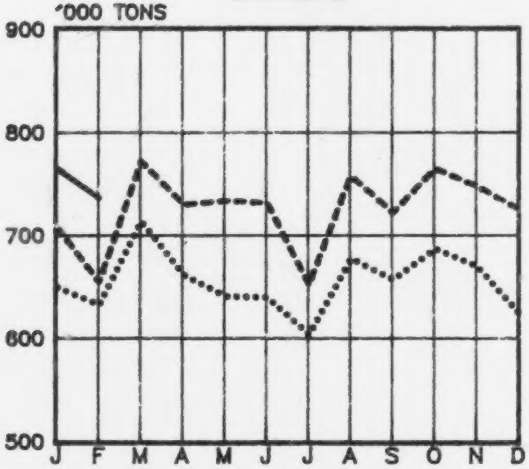
COATED PAPER

SHIPMENTS



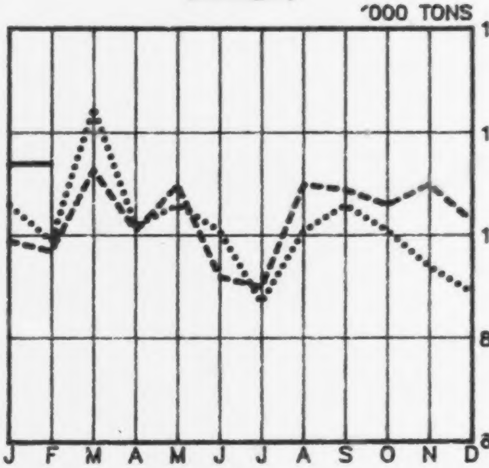
UNCOATED FREE SHEET PAPERS

SHIPMENTS



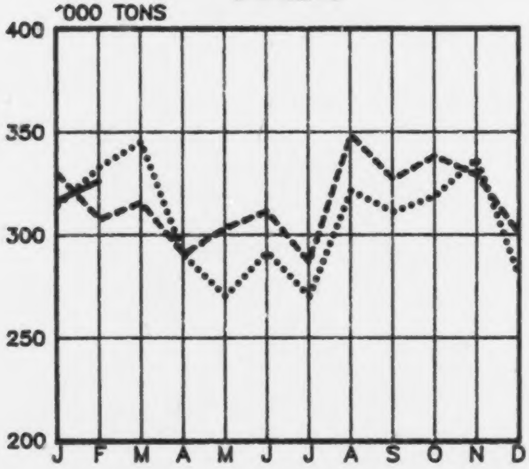
COTTON FIBER PAPER

SHIPMENTS



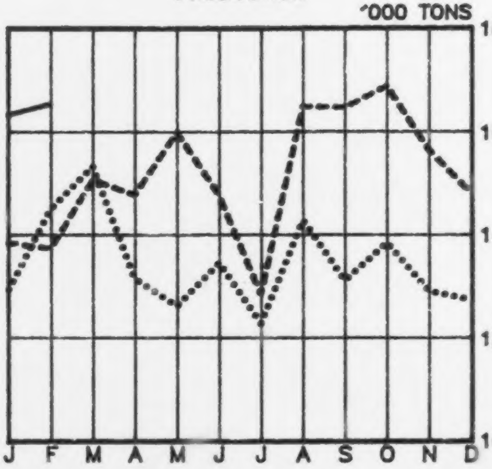
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1982 ········ 1983 ----- 1984 ——

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 82	YEAR 83	OCT. 83	NOV. 83	DEC. 83	JAN. 84	Annual Rate Y-T-D 84	% Change From same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	49334	52535	4685	4597	4124	4517	54208	5.9
- Imports	3856	4093	431	362	345	337	4050	9.1
- Exports	3395	3644	315	252	384	260	3115	11.0
- New Supply	49595	52985	4801	4708	4085	4595	55144	5.9
Dissolving Pulp - Production	1092	1261	113	117	106	98	1172	10.8
- Imports	186	192	16	7	21	15	180	-39.7
- Exports	631	647	77	61	72	52	625	-12.5
- New Supply	647	806	52	63	54	61	727	13.2
Paper Grades Chemical Pulp - Production	39478	42358	3777	3704	3297	3606	43267	5.1
- Imports	3302	3706	394	328	305	304	3644	10.9
- Exports	2736	2958	237	189	310	205	2456	19.6
- New Supply	40044	43105	3934	3843	3292	3705	44454	4.9
Groundwood and Thermo-Mech. - Production	5064	5067	449	443	419	462	5540	9.4
- Imports	167	195	21	28	20	19	227	76.7
- Exports	27	40	1	2	2	3	34	-8.8
- New Supply	5204	5222	469	467	436	478	5733	11.2
Semi-Chemical - Production	3699	3851	347	334	303	352	4229	8.4
- Imports	0	0						
- Exports	0	0	------ Included with Groundwood Pulp ------					
- New Supply	3699	3851	347	334	303	352	4229	8.4
MARKET WOOD PULP								
Total Market Wood Pulp - Production	5732	6416	590	577	475	531	6372	16.0
- Imports	2443	2845	317	239	293	231	2769	13.9
- Exports	3143	3422	278	249	315	259	3103	10.8
- New Supply	5031	5939	628	567	453	503	6038	18.0
Dissolving Pulp - Production	1089	1260	111	116	106	97	1169	10.4
- Imports	194	210	21	13	23	20	242	-16.8
- Exports	675	698	53	58	78	47	568	2.4
- New Supply	608	772	79	72	50	70	843	6.1
Paper Grades Chemical Pulp - Production	4643	5144	478	459	368	433	5184	17.5
- Imports	2202	2698	288	222	268	204	2450	14.6
- Exports	2468	2724	227	191	237	211	2538	12.6
- New Supply	4377	5117	540	490	398	426	5108	18.6
Groundwood Pulp and All Other - Production	1	12	1	1	1	1	10	-33.3
- Imports	46	38	7	4	4	6	77	3326.7
- Exports	0	0	0	0	0	0	0	0.0
- New Supply	47	50	8	5	5	7	86	419.7

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

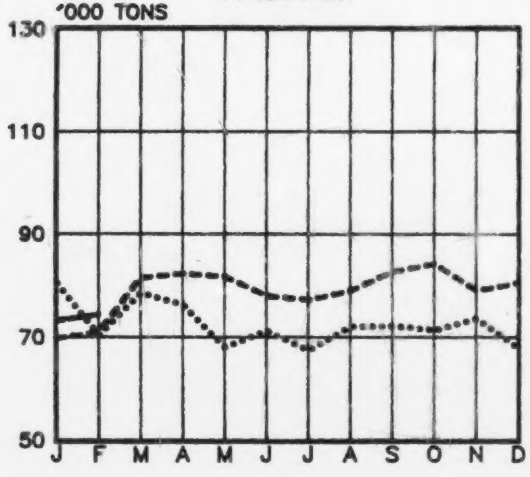
	YEAR 82	YEAR 83	OCT. 83	NOV. 83	DEC. 83	JAN. 84	Annual Rate Y-T-D 84	% Change From same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	61332	65489	5934	5727	5244	5663	67961	5.5
Total Wood Pulp	47767	50960	4597	4452	4088	4371	52457	4.6
Waste Paper	13565	14538	1337	1275	1156	1292	15504	8.4
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	177	172	186	192	172	153	153	-17.8
Market Pulp at Pulp Mills	437	380	449	484	380	391	391	-7.8
Mkt Pulp at Ppr. & Bd. Mills *	428	522	476	499	522	564	564	37.2
Waste Paper at Paper &Bd. Mills	1022	820	864	864	820	808	808	-4.1
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	37	26	30	34	26	28	28	-20.0

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

* - Census data prior to 1982; P - Preliminary; R - Revised; (O) - Indicates zero to five-hundred short tons

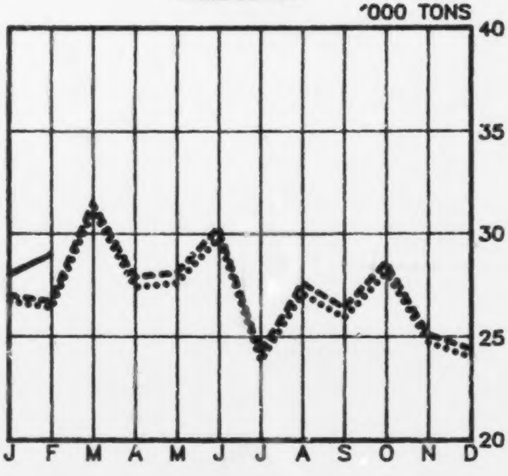
BLEACHED BRISTOLS

PRODUCTION



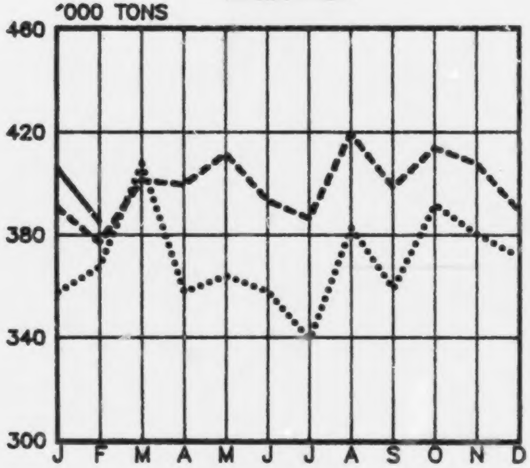
THIN PAPER

PRODUCTION



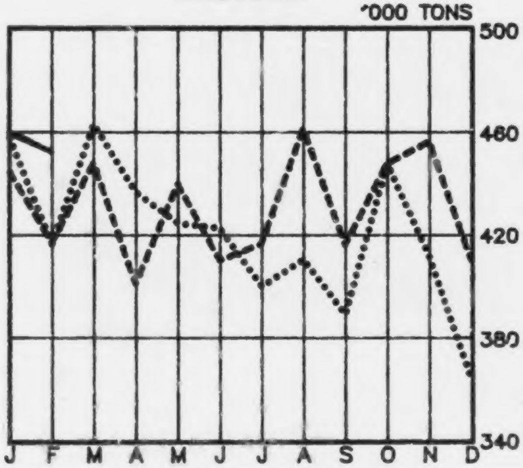
TISSUE PAPER

PRODUCTION



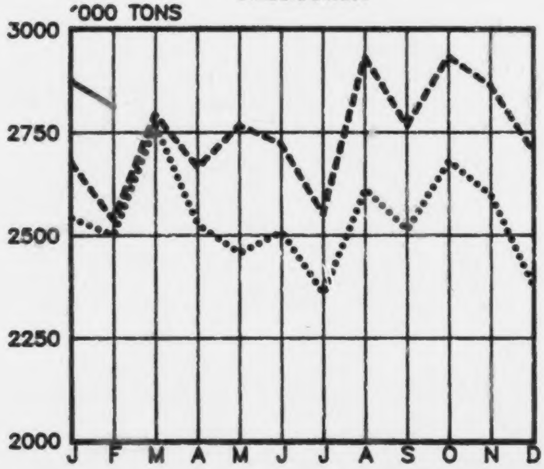
NEWSPRINT

PRODUCTION



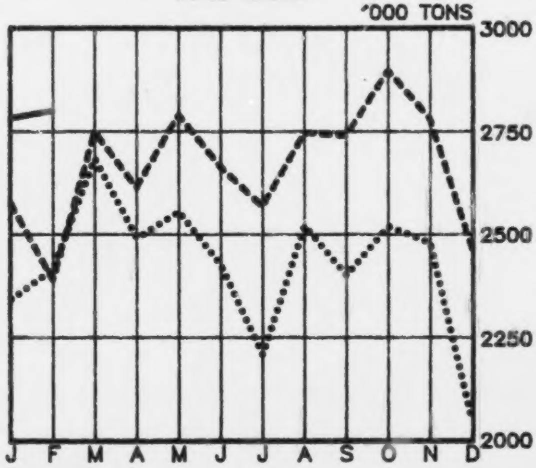
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1982 ········ 1983 – – – – 1984 ——

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Foot) Cords)

		YEAR 82	YEAR 83	OCT. 83	NOV. 83	DEC. 83	JAN. 84	Annual Rate Y-T-D 84	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78519	84475	7691	7172	6691	7044	84528	1.7
	- Total Consumpt.	78039	85442	7534	7267	6741	7185	86220	2.7
	- Residues *	31152	32755	3010	2802	2506	2554	30648	-0.2
	- Inventories	5426	5229	5430	5266	5229	5168	5168	-7.9
So. Atlantic	- Total Receipts	23769	25736	2299	2150	2067	2094	25128	0.5
	- Total Consumpt	23725	25847	2287	2153	2020	2151	25812	0.7
	- Residues *	8273	7804	724	671	613	650	7800	-0.3
	- Inventories	1185	1163	1180	1103	1163	1101	1101	-4.7
Northeast	- Total Receipts	7283	7051	649	648	619	680	8160	5.3
	- Total Consumpt	7221	7274	642	663	600	678	8136	3.6
	- Residues *	1452	1199	115	117	107	106	1272	15.2
	- Inventories	652	577	537	543	577	587	587	-15.3
South Central	- Total Receipts	26510	29409	2753	2538	2215	2305	27660	-2.1
	- Total Consumpt	27153	29152	2561	2479	2282	2380	28560	1.4
	- Residues *	8616	9218	852	779	645	703	8436	-6.3
	- Inventories	1346	1536	1628	1627	1536	1495	1495	1.8
North Central	- Total Receipts	5601	6265	565	493	527	621	7452	-2.1
	- Total Consumpt	5706	6343	553	551	494	574	6888	5.5
	- Residues *	1517	1822	181	146	145	102	1224	-32.9
	- Inventories	925	851	870	823	851	906	906	-9.5
West	- Total Receipts	15358	16014	1425	1345	1263	1344	16128	11.4
	- Total Consumpt	15234	16826	1491	1421	1345	1402	16824	6.6
	- Residues *	11294	12612	1139	1089	996	983	11916	8.9
	- Inventories	1338	1102	1215	1170	1102	1079	1079	-16.7

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 83 Tons	YEAR 83 $000	DEC. 83 Tons	DEC. 83 $000	JAN. 84 Tons	JAN. 84 $000	Annual Rate Y-T-D 84	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	155124	7471	38169	2009	11557	528	138684	85.3
Pulpwood Chips	1987168	48879	123568	2899	149841	3539	1798092	13.9
Wood Pulp, Total	3755201	1363975	319386	117862	327983	121876	3935796	14.3
Waste Fibrous Materials, Total	157732	26491	11854	2254	11709	2043	140512	13.7
Paper, Board & Products,Total	8274914	3372726	688466	291646	774702	321245	9296428	21.1
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	8221322	3274062	683530	282802	769649	311512	9235783	20.8
Paper Paperboard & Products	7846519	3277974	668022	286410	750604	315594	9007244	22.4
Paper & Paperboard, Only	7792924	3179310	663086	277567	745550	305861	8946600	22.2
Paper, Total	7633585	3139193	648244	273601	725157	300412	8701878	20.6
Newsprint	6845135	2732234	583489	238378	650144	280300	7801728	20.3
Printing,Writing & Rel.Pap.	695907	348512	57831	30743	66062	34525	792746	18.8
Pack. & Ind. Conv. Paper	79209	46889	5838	3573	7866	4632	94380	54.4
Special Industrial Paper	2732	4473	175	300	226	370	2716	55.1
Tissue Paper	10602	7085	913	607	858	585	10298	242.5
Paperboard, Total	159339	40117	14841	3966	20394	5449	244722	134.8
Convtd Paper&Paperbd Products	53592	98664	4936	8844	5054	9733	60644	63.5
Wet Machine Board	3036	1916	242	150	198	130	2376	-5.8
Construction Paper & Board	425362	92836	20203	5088	23901	5522	286807	-9.8

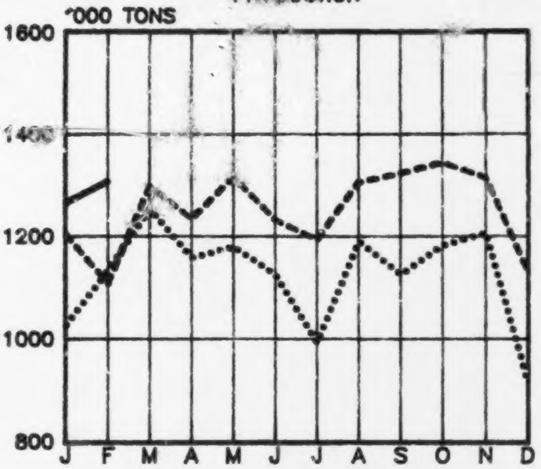
EXPORTS TO CANADA

	YEAR 83 Tons	YEAR 83 $000	DEC. 83 Tons	DEC. 83 $000	JAN. 84 Tons	JAN. 84 $000	Annual Rate Y-T-D 84	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	68965	4381	5396	287	3534	242	42408	-32.2
Pulpwood Chips	38246	2026	1167	53	763	35	9156	-57.1
Wood Pulp, Total	133633	55368	7971	3685	15909	7290	190908	39.8
Cotton Pulp & Other Pulp	9567	5287	676	423	1261	544	15132	73.7
Waste Paper	346809	39478	28513	3344	24683	2801	295956	1.5
Paper, Board & Products,Total	859229	471256	49519	37683	58294	41243	698526	4.6
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	448117	306887	30434	24870	39667	27823	476008	6.4
Paper, Paperboard & Products	628109	459325	47278	36775	56228	40416	674738	4.5
Paper & Paperboard, Only	416898	284756	28191	24062	37602	26996	451219	8.3
Paper, Total	230771	210626	18089	19090	21127	19018	253523	19.4
Newsprint	4312	3805	500	484	350	302	4196	-23.7
Printing,Writing & Rel.Pap.	125110	101541	9626	8625	12138	10268	145657	8.2
Pack. & Ind. Conv. Paper	34403	20821	2987	1796	2587	1682	31039	48.9
Special Industrial Paper	63390	81389	4856	8005	5851	6442	70210	51.1
Tissue	3556	2868	121	170	202	324	2420	-50.4
Puperboard, Total	186226	84131	10101	4972	16475	7978	197696	-6.9
Convtd Paper&Paperbd Products	211112	164568	19086	12713	18627	13420	223519	1.1
Wet Machine Board	5289	2976	599	304	196	107	2350	-47.5
Construction Pap & Bd. E	25831	8855	1845	603	1870	721	22438	22.0

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

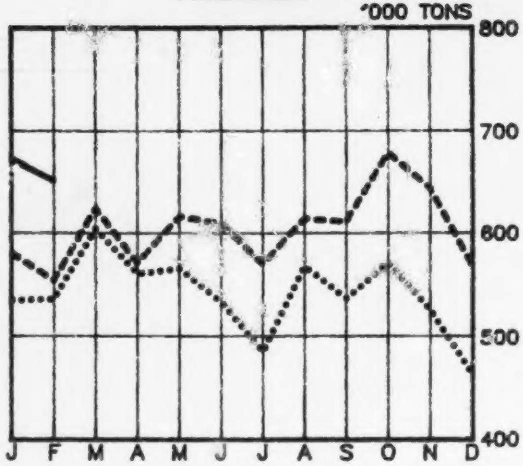
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



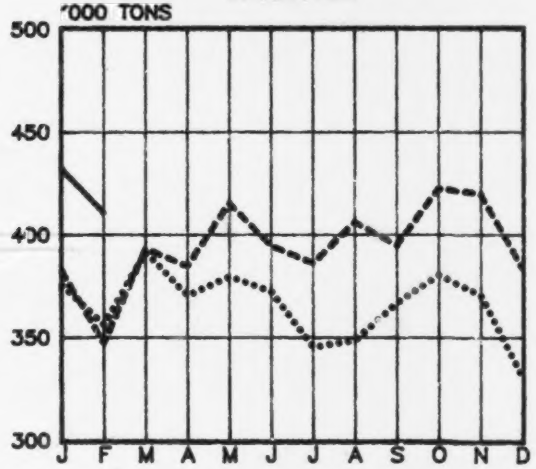
RECYCLED PAPERBOARD

PRODUCTION



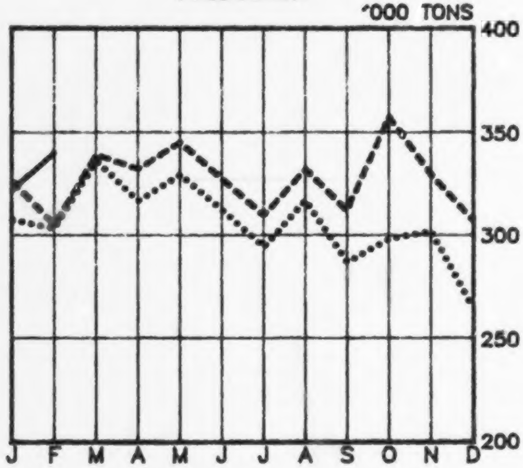
SEMICHEMICAL PAPERBOARD

PRODUCTION



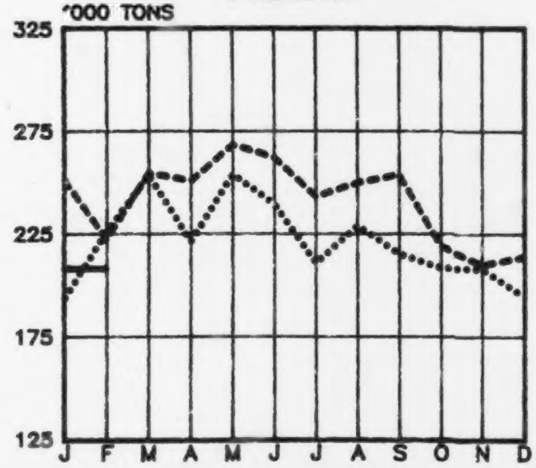
SOLID BLEACHED PAPERBOARD

PRODUCTION



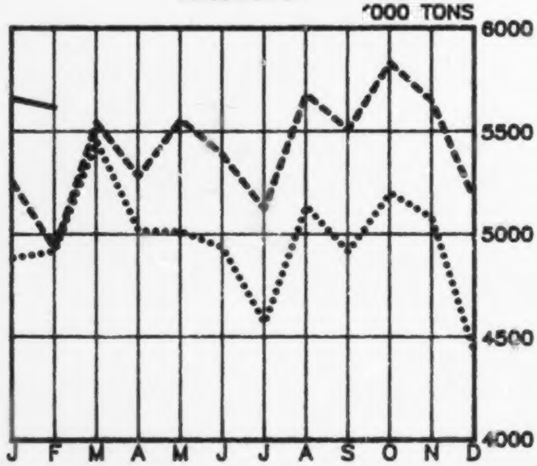
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1982 ········ 1983 - - - - - 1984 ———

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 83 Tons	$000	DEC. 83 Tons	$000	JAN. 84 Tons	$000	(1) Annual Rate Y-T-D 84	% Change From same Period Last Year
Pulpwood Roundwood (cords)	155124	7471	39169	2009	11557	526	138684	85.3
Pulpwood Chips	1991453	49104	123606	2899	149857	3541	1798284	13.9
Total All Imports	13248280	5526141	1132767	489442	1236619	533422	14839428	23.1
Wood Pulp Total	4093436	1472478	344834	126308	337494	124721	4049928	9.1
Waste Paper	100410	10537	6902	784	7981	897	95772	74.9
Other Fibrous Materials	68003	24272	5884	1993	4930	1973	59156	-24.6
Paper Board & Products Total	8986431	4018855	775146	360358	886214	405831	10634573	28.5
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	8834560	3582282	760110	320669	870713	364488	10448554	29.0
Paper Prbd & Prds ex Cnst&WMB	8509180	3811591	751166	354275	859811	389621	10317733	31.3
Paper & Paperboard Only	8357309	3475028	736130	314586	844310	358279	10131714	30.7
Paper Total	8189491	3428868	720739	310254	821798	352175	9861577	29.0
Newsprint	6918348	2757524	582616	241444	663056	264092	7956672	21.8
Printing & Writing	1151011	587426	119012	62226	143923	77940	1727078	70.2
Uncoated Groundwood	732237	331017	61685	28240	73013	33423	876150	38.5
Uncoated Book	154147	88632	17626	11007	23648	14106	283771	30.8
Coated Print.& Imprem. Pap	162441	101289	20699	12576	24370	15969	292435	132.5
Bristols	471	557	116	152	59	66	709	125.6
Writing and Similar Paper	81458	46718	15442	8010	18114	9970	217366	669.8
Thin (except Cigarette)	20258	19213	3443	2241	4721	4407	56647	440.0
Total Pkg & Other Paper	107515	75694	8046	5814	13917	9503	167002	85.9
Unbleached Kraft Paper	42013	17454	2809	1151	4471	1975	53654	42.3
Other Pkg. & Indust. Paper	65503	58240	5237	4664	9446	7528	113347	117.4
Tissue	11617	8225	1065	771	902	640	10825	219.6
Paperboard, Total	167818	46160	15390	4332	22511	6104	270137	148.6
Test or Containerboard	48119	13042	4713	1422	5940	1759	71285	196.9
Semi-Chemical Corrugating	69564	14509	6356	1436	10272	2328	123260	171.7
Other Paperboard	50136	18609	4322	1474	6299	2017	75592	92.5
Convtd Paper&Paperbd Products	151872	436563	15036	39689	15502	41343	186015	68.8
Paper Products, Total	124816	373966	12771	35320	13305	36450	159664	84.9
Paperboard Products, Total	27055	62597	2265	4369	2196	4893	26356	13.8
Wet machine Board	3584	2422	309	172	260	169	3118	16.2
Construction Paper & Board	473667	104842	23672	5911	26144	6041	313722	-10.1
Notes								
Other: No Weight Avail. ($000)		148251		12217		16261	195131	51.7
Total Imports Incl. Other($000)		5674392		501659		549683	6596196	29.6

EXPORTS

	YEAR 83 Tons	$000	DEC. 83 Tons	$000	JAN. 84 Tons	$000	(1)	
Pulpwood, Roundwood (cords)	69497	4405	5396	287	3534	242	42408	-32.2
Pulpwood Chips	2554176	171269	175841	11252	230485	15374	2765820	44.4
Total All Exports	10888949	4221511	979248	374453	875607	340829	10507282	10.1
Wood Pulp, Total	3643963	1362022	383960	147529	259573	100225	3114876	11.0
Cotton Pulp and Other Pulp	102863	69805	9697	6167	9286	5978	111456	0.9
Waste and Old Paper	2573716	308915	225950	27556	265327	32734	3183924	30.7
Paper, Board & Products, Total	4568407	2480769	359641	193202	341419	201892	4097026	-2.2
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	3984277	1717768	310122	135633	291187	137629	3494238	-3.4
Paper, Prbd & Prod ex Cnst&WMB	4501039	2448779	352937	189956	335153	198182	4021834	-2.8
Paper & Paperboard, Only	3916910	1685778	303417	132387	284921	133919	3419046	-4.1
Paper, Total	773414	598370	57598	48207	62601	51954	751211	1.3
Newsprint	294870	127119	23308	9855	23776	10517	285307	8.2
Printing & Writing	201798	198304	14796	16058	17770	18627	213236	2.2
Uncoated Groundwood	37289	33300	2166	2775	1866	2183	23588	-33.6
Clay Coated Paper	79182	60033	6657	5268	8460	6585	101524	24.5
Uncoated Free Sheet	59125	71662	4387	5948	5449	7167	65386	-9.6
Other Printing & Writing	26202	33310	1585	2067	1895	2681	22739	18.8
Total Pkg. & Other Paper	260865	255086	18656	21134	20031	21416	240387	-6.0
Unbleached Kraft	116170	43227	7988	3275	8621	3868	103450	-18.8
Other Pkg. & Indust. Paper	144695	211859	10668	17859	11410	17548	136918	8.0
Tissue	15881	18861	837	1160	1025	1394	12300	-10.5
Paperboard, Total	3143496	1086408	245819	84180	222320	81965	2667835	-5.5
Solid Wood Pulp	2993868	1016184	236391	79952	211297	76348	2535558	-6.8
Total Linerboard	2254538	575882	168312	45878	155177	43140	1862122	-6.5
Bleached Kraft Linerboard	160253	64814	15880	6713	15246	5951	182948	229.2
Unbleached Kraft Linerbd	2084285	510848	152431	39165	139931	37188	1679173	-13.3
Other Unbleached Kraft	107141	51822	16632	6477	11460	5446	137519	-6.5
Other Bleached Kraft	558431	371357	44512	25892	43314	27287	519772	-4.6
Semi-Chemical Corrugating	73758	17144	6936	1704	1346	475	16146	-53.7
Recycled Paperboard	149628	70224	9428	4228	11023	5617	132277	25.9
Convtd Paper&Paperbd Products	584125	763001	49519	57569	50232	64263	602788	5.6
Paper Products, Total	311722	535593	25577	38212	25749	43741	308882	-3.0
Paperboard Products, Total	272408	227406	23943	19358	24484	20522	293808	16.6
Wet Machine Board	11622	5420	1253	502	831	582	9973	-0.4
Construction Paper & Board E	55748	28570	5452	2745	5435	3118	65219	53.6
Notes								
Other: No Weight Avail. ($000)		7965		636		370	4435	-25.5
Total Exports Incl. Other($000)		4228475		375089		341188	4084377	8.4

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1967 = 100

	82	83	NOV.	DEC.	JAN.	FEB.	Annual Rate Y-T-D 83	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	273.2	271.3	276.3	276.8	280.0	283.3	281.7	4.8
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	275.9	273.2	277.4	277.9	281.2	284.2	282.7	4.2
Total Wood Pulp	379.1	346.7	352.6	351.3	364.4	371.5	368.0	6.3
Total Paper	286.3	282.2	287.9	288.9	294.3	296.6	295.5	5.9
Total Paper, exc. Newsprint	278.3	276.8	284.3	286.0	295.1	296.9	296.0	8.3
Newsprint	315.8	303.0	309.6	309.5	309.6	309.6	309.6	3.5
Total Paperboard	254.9	250.7	257.9	259.5	262.2	269.3	265.8	9.0
Total Paper and Paperboard #	276.5	272.3	278.5	279.7	284.2	288.0	286.1	6.8
Converted Products	264.4	265.3	267.8	268.0	269.4	271.6	270.5	2.1
Waste Paper	121.1	158.2	210.2	211.5	211.5	229.5	Not Available	
All Commodities	299.3	303.1	305.6	306.0	308.1	308.8	308.5	2.7
Industrial Commodities	312.3	315.7	318.3	318.4	319.2	320.4	319.8	1.9

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

Production of total recycled paperboard thus rose 17% over the year-ago level in the first two months of 1984. This brought the rate, on a seasonally adjusted basis, to 7.9 million tons per year, by far the highest rate realized since the inventory boom of 1973.

By way of contrast to the strong domestic demand, production of paperboard for export dropped 12% from the January-February 1983 level in the first two months of 1984, with kraft linerboard, the major part of the total, down 9.5% and solid bleached board down 16%. These declines reflected, in part, the effect of the strength of the U.S. dollar in the markets for these products.

The seasonally adjusted rate of production of paperboard for domestic use in the first two months of 1984 was about 13% above its comparable year-ago level. However, activity in the end use markets for paperboard as measured by an index of production of consumer goods, equipment and materials, with each sector weighted according to its importance as a paperboard market, gained 14% in this same period. These indexes are shown on the yellow Industry Data Sheet attached to this report. The table further shows that production of consumer goods rose about 12%; equipment 15% and materials 18%, with consumer goods representing over 60% of the total market. From this it

Continued from Page 10

would appear that the strong gains in paperboard production match the gains in end-use activity. Thus, paperboard production is being fully utilized, with no significant part being diverted to inventories at the consuming level.

Fibrous Raw Materials

Total production of chemical paper grade market pulp in the first two months of 1984 was 15% ahead of its comparable year-ago level. This brought the 1984 rate to about 5.2 million short tons per year, a shade higher than the 5.1 million tons produced in 1983.

Shipments of these grades of pulp in the first two months of 1984 rose by 19% over their year-ago level, representing an annual rate of 5.5 million short tons. Shipments to the domestic market rose by 12%, while export shipments rose 25%. Most of the export gain took place outside of shipments to Western Europe, where the increase was only 5%.

Export demand for U.S. market pulp has probably been influenced by the shutdown in the British Columbia pulp mills. Capacity at those mills represents about 37% of the total paper grade chemical pulp capacity in Canada and 51% of the Canadian chemical paper grade market pulp capacity. The shutdown started on February 2 and as of the end of March, was still going on.

An immediate impact of the strike has been a decline in inventories held by producers of market pulp. Even before the strike, U.S. inventories of market wood pulp at producing mills were in a down trend. After following a general upward trend during 1983 and reaching a peak of 484,000 short tons in November, inventories dropped sharply in December to 380,000 tons, rose to 391,000 tons in January 1984 and then dropped to about 350,000 tons in February. Data on consumers' inventories of purchased pulp, that is inventories of purchased pulp at paper and board mills show a fairly strong position. These inventories were relatively high -- 564,000 tons in January 1984 compared to 411,000 tons in January 1983. (February data were not available at this writing.) Consumers normally tend to increase their inventories of market pulp in times of rising demand.

The API's Paper Recycling Committee reports that total consumption of waste paper for all domestic uses in the first two months of 1984 was at the rate of 17 million tons per year, 11.6% ahead of its comparable 1983 total.

Continued on Page 12

Continued from Page 11

Capital Expenditures

The Department of Commerce has recently released new data on planned capital expenditures for 1984. The data show that paper companies expect to spend $7.13 billion on new plant and equipment in 1984, 15% above the $6.18 billion spent in 1983. (The 1983 figure represents a small revision from the $6.20 billion published earlier.)

Expenditures are shown to be rising sharply in the first quarter of 1984, from a $6.24 billion annual rate in the fourth quarter of 1983 to $7.07 billion in the first quarter of 1984 and holding to that level in the second. A rise to the $7.19 billion rate is projected in the last half of the year. Expenditures at these levels would represent record-highs; the previous high was reached in 1980 when expenditures totalled $6.80 billion.

The year-to-year gains compare favorably with the expenditures projected for all non-durable goods companies, where the increase is expected to be 12%. Producers of durable goods are expected to increase their expenditures by 21%, bringing the total for all manufacturing to 16%. The total increase for all non-farm business is expected to be 14%.

These are fairly strong increases, although not unusual for this time in the business cycle. Perhaps more importantly, the Department of Commerce expects these increases to be translated almost entirely into real growth. For capital expenditures by non-farm business as a whole, for example, they show the average prices increasing by only 1.4%; for non-durable goods producers the average increase is expected to be less than 1%. While these average increases cannot be directly translated into expected price changes for individual industry groups, it would appear that Commerce expects the rate of growth in the dollar increases to be closely matched by the increase in real expenditures.

The Commerce Department's projections of strength in plant and equipment expenditures by paper companies in 1984 is further bolstered by the data they show on new starts. They report new starts at $3.3 billion in the second half of 1983. This brought the carryover of expenditures on projects already under way as of the end of 1983 to $6.55 billion, compared to $6.37 billion at the end of 1982, equivalent to nearly one full year's expenditures.

The McGraw Hill survey of capital expenditures by paper and allied products companies taken earlier also shows gains in 1984, but at a somewhat smaller rate. This survey shows the 1984 total paper company expenditures at $6.41 billion, indicating a 3.4% gain from their 1983 level. The survey also showed that paper companies expect to continue to increase their expenditures in 1985 - to $6.65 billion.

March 30, 1984

	Full Year		INDUSTRY DATA			1984 Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			1983-1984				
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1982	1983	December	January	February		
Total Production (API).......| excluding |...	59488	64868	5169	5655	5611	67600	10.8
Total Seasonally Adjusted....|construction|...			5756	5721	5685	68437	8.9
Imports (including Products).| and wet |..E	7603	8509	751	860	N.A.	9959	40.9
Exports (including Products).| machine |..E	4187	4501	353	335	N.A.	4021	-6.0
Apparent Consumption.........| grades |...	62904 a	68876 b	6154	6246	6150	74375c	+13.3
Paper Production % Tonnage Capacity...........	87.8s	93.5s	87.9	93.6	96.9	96.3sh	-
Paperboard Production % Tonnage Capacity......	82.1s	89.7s	79.8	90.6	97.0	95.8s	-
			November	December	January		
IMPORTS.....|Including Construction and |.....	8024	8986	855	775	886	10635	29.5
EXPORTS.....| WMB Grades (excl. HPB) |.....	4246	4568	404	360	341	4097	-2.2
MARKET WOOD PULP PRODUCTION - Tons (000)........	5732	6416	577	475	531	6372	16.0
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	49334	52535	4597	4124	4517	54209	5.9
WOOD PULP IMPORTS - TONS (000)..................	3656	4093	362	345	337	4050	9.1
WOOD PULP EXPORTS - TONS (000)..................	3395	3644	252	384	260	3115	11.0
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			November	December	January		
Wood Pulp.............|consumption for|.....	47767	50960	4452	4088	4371	52457	4.8
Waste Paper...........|construction & |.....	13565	14539	1275	1156	1292	15504	8.4
TOTAL..........| WMB grades |.....	61332	65499	5727	5244	5663	67961	5.5
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79039	85442	7267	6741	7185	86220	2.7
EMPLOYMENT (000)			December	January	February		
Paper and Allied Products..........Total......	662.0	658.7	669.4	666.2	668.7	667.5	3.1
Pulp, Paper and Board Mills........Total.....E	257.8	253.7	256.2	255.0	255.9	255.5	1.4
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	9.32	9.93	10.23	10.22	10.22	10.22	5.9
Pulp, Paper Mills.........................E	10.88	11.71	12.11	12.11	12.11	12.11	7.2
Paperboard Mills..........................E	11.13	12.11	12.58	12.53	12.53	12.53	8.0
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q3	1983 Q4	1984 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.97	6.18	6.18	6.24	7.07	7.13y	15.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			December	January	February		
|IN PULP, PAPER |...Production Workers..........	109.9	121.5	125.5	125.0	123.6	124.3	2.8
|AND BOARD MILLS|...All Employees..............	108.3	120.0	125.0	124.5	123.4	124.0	4.6
PAPER AND ALLIED PRODUCTS (Million $)			November	December	January		
Industry Shipments (Dept. of Commerce)*........	78992	85762	7638	7801	7862	94344	16.2
Pulp, Paper and Paperboard*.................	33523	36321	3186	3315	3307	39684	15.6
Inventories (End of Period) - Total Industry*.	8607	8766	8813	8766	8925	8925	4.6
Pulp, Paper and Paperboard*.................	3365	3249	3300	3249	3267	3267	-3.7
			1983 Q3	1983 Q4	1984 Q1		
Sales (Corporations Only, FTC)................	60293	65095 K	16797	N.A.	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC).............	1460	2216 K	678	N.A.	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC).........	2379	2653 K	688	N.A.	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)............	26705	27381 L	27381	N.A.	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			December	January	February		
Pulp, Paper & Products, ex. Building Grades...	273.2	271.3	276.8	280.0	283.3	281.7	4.8
Wood Pulp.....................................	379.1	348.7	351.3	364.4	371.5	368.0	6.3
Waste Paper...................................	121.1	158.2	211.5	211.5	229.5	Not Available	
Paper...	286.3	282.2	288.9	294.3	296.6	295.5	5.9
Paperboard....................................	254.9	250.7	259.5	262.2	269.3	265.8	9.0
PAPER DEMAND (INDEXED: 1967=100)			December	January	February		
Total Paper Production *......................	145.4	157.3	165.3	166.0	162.3	164.2	7.2
Paper New Supply *............................	135.1	147.8	155.9	160.6	155.3	158.0	13.3
Total End - Use Index *....................	149.5	157.9	166.6	168.2	169.6	168.9	12.9
Production of Nondurable Goods *...(19%)..	156.1	168.0	174.4	175.9	177.7	176.8	11.8
Disposable Income (Constant $) *...(23%)..	157.8	163.4	168.6	170.3	170.8	170.6	6.6
Total Printing and Publishing *...(58%)..	144.0	152.4	163.3	164.9	166.5	165.7	16.2
Trend Factor	---------------------------Not Available---------------------------						
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	127.6	140.2	151.0	148.5	150.0	149.2	10.6
Production for Domestic Use	122.7	134.9	148.1	145.7	147.4	146.6	12.9
Total End - Use Index *....................	139.5	148.8	156.0	158.1	159.9	159.0	13.9
Production of Consumer Goods *...(60.49%)	142.7	151.7	157.3	159.6	161.1	160.4	11.7
Production of Equipment *...(6.62%)	139.8	140.8	151.3	153.0	154.2	153.6	14.6
Production of Materials *...(32.89%)	133.7	145.2	154.6	156.4	158.8	157.6	18.1
Trend Factor	---------------------------Not Available---------------------------						
NEWSPRINT MARKETS			November	December	January		
Consumption by Publishers - Tons (000)........	11141	11669	1086	1051	939	11270	6.0
Newspaper Pub. and Printing Empl. Total(000)..	417.5	421.6	428.7	430.2	428.3	428.3	3.2
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	121617	RS N.A.	N.A.	N.A.	8933	107200	6.9
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	22776	26532	2417	2439	2394	28728	16.7
Inventories (End of Period)	1885	2341	2377	2341	2308	2308	17.2
FIBRE BOX DATA (Fibre Box Association)			December	January	February		
Fibre Box Shipments (Million square feet)......	235185	252876	19874	22065	21983	264288	14.1
Container'bd Inventory at Mill & Plant(000Tons)	2584	2442	2442	2404	2428	2428	-1.4
RETAIL TRADE (Million $)							
Total Retail Sales *..........................	1074467	1171815	102738	106154	105982	1272816	15.6
Nondurable Goods Stores Sales *..............	753598	793398	67423	69848	69313	834966	9.0
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	138.6	147.6	156.1	158.0	159.9	159.0	15.4
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	299.3	303.1	306.0	308.1	308.8	308.5	2.7
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	289.1	298.4	303.5	305.2	306.6	305.9	4.3
			November	December	January		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	344.8	387.9	376.4	387.9	386.4	386.4	12.6
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions$).			1983 Q3	1983 Q4	1984 Q1		
G.N.P. or Expenditure - Current $.............	3073.0	3310.5	3362.2	3436.2	3534.2	3534.2	11.4
G.N.P. or Expenditure - 1972 $................	1485.4	1535.3	1553.4	1572.5	1600.0	1600.0	7.4

lb/capita

	Pap&Parbd	Othr	Totl	Popul(mil)
.a -	543 +	15 =	558	232.0
.b -	589 +	18 =	607	234.2
.c -	633 +	18 =	651	234.9

.E - Last month estimated by API
.e - estimated by API
L - END OF THIRD QUARTER 1983

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
J - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter
K - ANNUAL RATE, FIRST 3 QUARTERS 1983

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

MARCH 30, 1984

PRODUCTION (000 TONS)

	Feb. 1984	Jan. 1984	Feb. 1983	Jan - Feb. 1984	Jan - Feb. 1983	% Change 84/83
PAPER GRADES	P	R				
Newsprint	452	459	417	912	861	5.9
Printing & Writing	1488	1529	1298	3017	2671	13.0
Uncoated Groundwood (s)	128	138	108	266	225	18.0
Coated Paper (s)	509	514	427	1023	869	17.7
Uncoated Free Sheet Paper (s)	736	765	655	1501	1362	10.2
Thin Paper (s)	29	28	27	57	54	6.1
Cotton Fiber Paper (s)	11	11	10	23	20	16.3
Bleached Bristols (s)	75	73	71	148	141	4.9
Tissue Paper	385	406	377	791	768	3.0
Total Pkg & Other Paper	488	480	445	968	914	6.0
Unbleached Kraft Packaging & Indl. Converting (s)	322	317	308	639	638	0.2
Other Paper *	166	163	137	329	276	19.3
TOTAL PAPER	2813	2875	2536	5687	5213	9.1
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1398	1357	1182	2754	2466	11.7
Unbleached Kraft Linerboard	1308	1266	1107	2573	2311	11.4
Other Unbl. Kraft Paperboard	90	91	75	181	155	16.5
Semichemical Paperboard	411	432	347	842	729	15.5
Bleached Paperboard	340	322	305	661	630	5.0
Recycled Paperboard	650	671	553	1321	1133	16.7
TOTAL PAPERBOARD	2799	2781	2387	5579	4958	12.5
TOTAL PAPER AND PAPERBOARD	5611	5655	4923	11267	10171	10.8

WOOD PULP (ALL GRADES)	Jan. 1984	Dec. 1983	Jan. 1983	Jan - Jan. 1984	Jan - Jan. 1983	% Change 84/83
Dissolving & Special Alpha	98	106	88	98	88	10.8
Bleached Sulfite	108	110	108	108	108	-0.5
Unbleached Sulfite	25	23	30	25	30	-17.8
Bleached & Semi-Bl. Sulfate	1781	1652	1709	1781	1709	4.2
Unbleached Sulfate	1692	1512	1583	1692	1583	6.9
Semichemical	352	303	325	352	325	8.4
Groundwood and Thermomechanical	462	419	422	462	422	9.4
TOTAL PULP DIVISION DATA	4517	4124	4266	4517	4266	5.9

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

5/18/84
A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 62 - No. 4 APRIL 1984

Paper and Paperboard Production: Industry Running Full

For the first time in history, the production of paper and paperboard exceeded 6 million tons in a single month. Preliminary data show total production in March 1984 at 6,029,000 tons, 8.8% above its year-ago level. Both paper and paperboard production established new highs, with each group moving above the 3 million-ton level for the first time. For the first quarter as a whole production ran 10.4% above its year-earlier level.

On a seasonally adjusted basis, however, the trend level of paper and paperboard production (average of February and March seasonally adjusted data) was at the rate of 67.9 million tons per year, about 1% below the February trend level. The normal seasonal pattern called for an 8.8% increase in production from February to March, after taking into account the extra day in February for leap year. The actual increase was 6.8%, reflecting in part the fact that some grades were operating at or near practical maximum capacity throughout this period.

For the entire first quarter of 1984, paper and paperboard production was at the seasonally adjusted rate of 68.2 million tons per year, just about equal to the previous quarter and 2.4% above the third quarter rate of 66.6 million tons per year.

Paper production: The strongest production trends among the various paper grades continued to be in the printing paper and the other packaging/industrial grades. Production of both uncoated groundwood and total coated papers was some 18% above the year-earlier totals in the first quarter of 1984, as was the production of the "other" packaging/industrial grades. The heavy demand for printing papers reflected the strong demand for print advertising as evident in the expanding use of direct mail catalogues, reports, brochures and magazines.

While the production of the uncoated free sheet shipments in the first quarter of 1984 was 7.7% above the comparable 1983 total, the trend of shipments during the first three months of 1984 appears to be pointing downward. The production trend, however, has been steady according to API weekly reports. Unfilled orders for these papers, which had climbed from 639,000 tons at the end of October 1983 to 676,000 tons by the year end, fell to 589,000 tons during the first two months of 1984, but held that level in March.

Continued on Page 2

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Continued from Page 1

Production of tissue papers, which had posted an 8% gain in 1983 over the 1982 total, continued to show good gains over 1983 in the first three months of 1984, with a 5% advance over its year-earlier level. The trend of production has stabilized; on a seasonally adjusted basis tissue paper production was at 4.8 million tons per year in the first quarter of 1984, just matching the average rate for all of 1983.

Among the packaging and industrial converting grades, shipments of unbleached kraft paper strengthened considerably in March, bringing the first quarter 1984 total 4.4% above its year-ago level; in the first two months of 1984 the total just matched its year-ago level.

Paperboard Production: Paperboard production, as noted above, also moved to a new high in March. Production of containerboard for domestic use, which accounted for more than 60% of total paperboard production, was 13% ahead of its year-ago level, compared to an 11.7% gain in shipments of fibre boxes, as reported by the Fibre Box Association. Production of boxboard for domestic use has also been quite strong, with the first quarter 1984 total up 9% from the comparable 1983 quarter. This reflected an 11% increase in production of folding boxboard for domestic use and a 13% increase in set-up boxboard. Production of milk carton stock for domestic use showed a strong 10% gain.

The largest gains, however, continued in the other categories, with production of gypsum wallboard facings up 52% and panelboard 47%.

Production of paperboard for export strengthened considerably in March from its January-February level, moving back to 249,000 tons, which nearly matched the March 1983 total. However, the first quarter 1984 total was still 8% below that of the first quarter of 1983.

Employee Relations

On the labor scene, 1983 was a fairly heavy year for union negotiations. To date, 156 mills have reached agreements covering approximately 72,000 employees. The first year's negotiated increase for these contracts was 5.6%, down from 1982's rate of 6.9%. The heaviest round of negotiations was in the Southern Region, where 60 mills negotiated first year increases averaging 5.9%.

Increases negotiated to take effect in 1984 and 1985 averaged 5.7% and 5.1%, on a nationwide basis.

The unions involved in negotiations on the U.S. West Coast (three companies, 13 mills) and in British Columbia have rejected employers' offers. However, at this writing all the mills involved are presently operating.

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

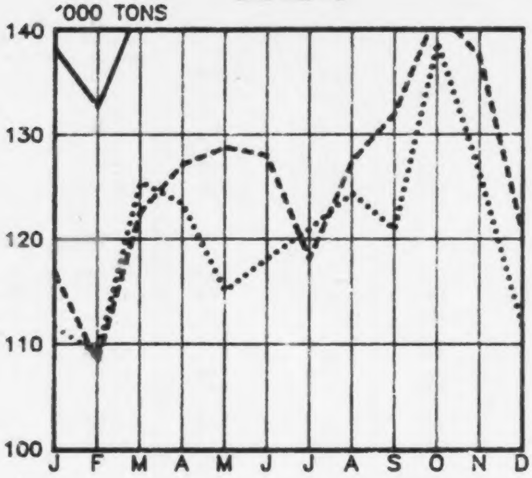
	YEAR 1982	YEAR 1983	DEC. 1983	JAN. 1984	FEB. 1984	MARCH 1984	Annual Rate Y-T-D 1984	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	5042	5167	410	459	452	478	5580	6.2
- Shipments	4888	5153	430	457	454	500	5843	14.8
Printing & Writing	15643	17355	1458	1531	1514	1592	18550	11.8
Groundwood Paper - Shipments	1459	1508	121	138	133	143	1654	18.9
- New Orders	1469	1559	122	147	153	143	1770	24.0
- Unfilled Orders	91	156	158	161	164	166	166	74.3
Coated Paper - Shipments	5032	5743	486	514	518	537	6274	18.0
- New Orders	4898	5845	545	502	533	555	6361	17.1
- Unfilled Orders	325	551	551	526	546	561	561	52.7
Unctd Free Sheet - Shipments	7217	8702	726	767	750	782	9192	7.7
- New Orders	7820	9010	735	730	715	787	8930	-0.8
- Unfilled Orders	321	676	676	618	588	592	592	28.8
Thin Paper - Shipments	323	328	24	28	27	32	348	2.1
Cotton Fiber Paper - Shipments	118	124	10	12	12	12	142	14.9
Bleached Bristols - Production	865	948	81	73	75	87	940	5.7
Tissue Paper - Production	4438	4790	390	407	395	426	4811	5.0
Total Packaging & Other Paper	5300	5606	449	487	488	527	6009	8.8
Unbl. Kraft Paper - Shipments	3688	3792	301	322	322	352	3982	4.4
Other Paper - Production	1612	1814	148	165	166	176	2027	18.8
TOTAL PAPER-Production-Unadj. *	30422	32917	2706	2885	2849	3023	35029	9.4
-Production-S.A. *			2885	2908	2869	2802	34317	8.1
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	22589	24718	1895	2110	2149	2305	26253	10.3
Unbl. Kraft Linerboard (1)	13494	15007	1132	1266	1309	1394	15875	10.0
Production for Export	1931	2163	168	154	153	190	1991	-6.5
Other Unbl. Kraft Paperboard	1040	1061	72	91	90	102	1131	14.2
Semichemical Paperboard	4389	4731	384	432	410	452	5173	15.2
Production for Export	185	198	13	12	14	14	180	-21.4
Solid Bleached Paperboard	3665	3919	307	322	340	357	4074	5.1
Production for Export	525	516	32	40	42	44	504	-10.3
Recycled Paperboard	6476	7234	568	671	649	702	8088	15.1
Production for Export	13	21	1	1	1	1	13	-18.1
TOTAL PAPERBOARD-Prod.-Unadj. *	29065	31951	2463	2781	2798	3007	34342	11.4
- Containerboard Prod.(Dom. Use)	17508	19281	1482	1701	1713	1811	20898	13.0
- Boxboard Prod.(Dom. Use) (2)	5150	5498	435	477	486	527	5982	9.0
- All Other P'bd Prod.(D.U.) (2)	3753	4274	333	395	389	420	4813	21.9
- Total Paperbd Prod. for Export	2654	2898	214	208	210	249	2688	-8.3
TOTAL PAPERBOARD PROD.- S.A. *			2871	2823	2852	2789	33858	10.2
TOTAL PAPER AND PAPERBOARD Production - actual *	59488	64868	5169	5666	5647	6030	69371	10.4
Production - S.A. *			5756	5731	5721	5591	68175	9.2

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* NOTE: Year 1984 contains one more day than year 1983.

P Preliminary
R Revised
S.A. Seasonally Adjusted

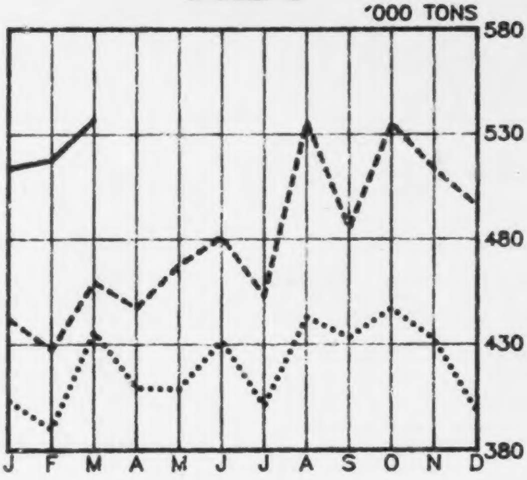
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



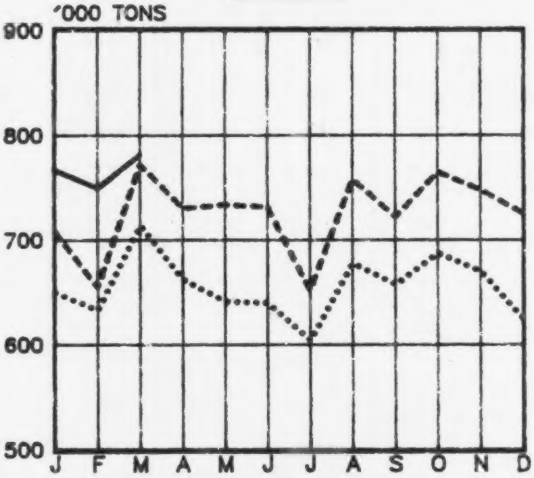
COATED PAPER

SHIPMENTS



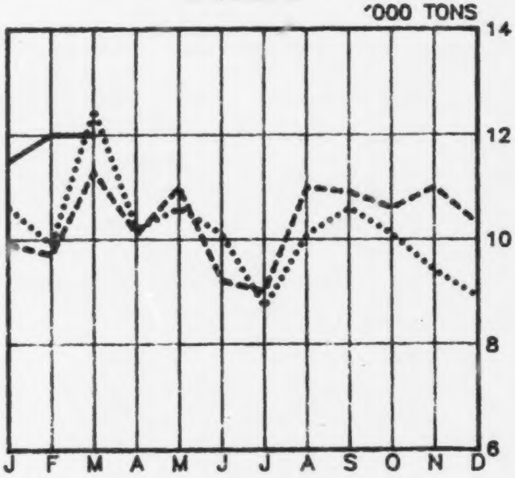
UNCOATED FREE SHEET PAPERS

SHIPMENTS



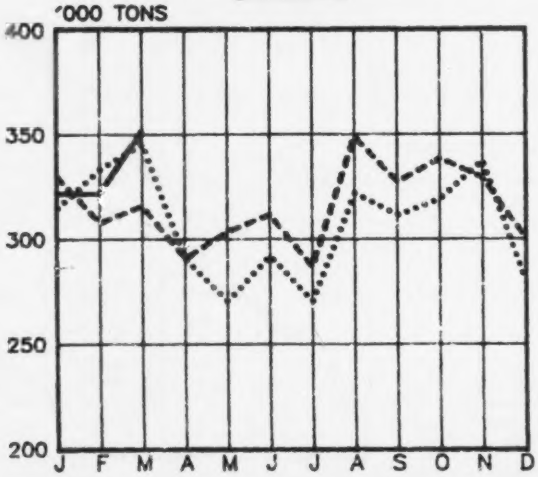
COTTON FIBER PAPER

SHIPMENTS



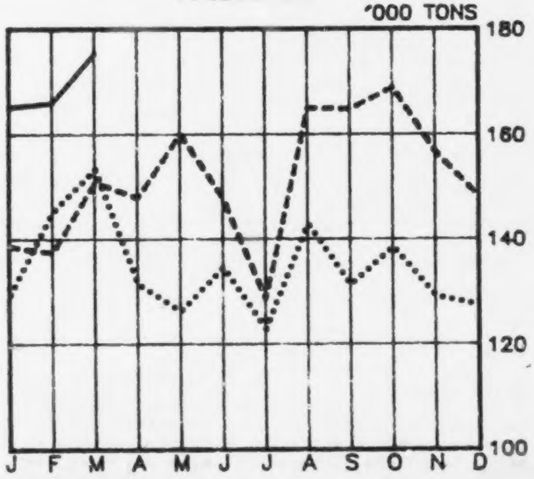
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1982 .... 1983 ----- 1984 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1982	YEAR 1983	NOV. 1983	DEC. 1983	JAN. 1984	FEB. 1984	Annual Rate Y-T-D 1984	% Change From same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	48334	52535	4597	4124	4513	4538	54308	9.3
- Imports	3656	4093	382	345	337	420	4545	31.8
- Exports	3395	3644	252	384	260	317	3461	14.3
- New Supply	48595	52985	4708	4085	4591	4641	55393	10.6
Dissolving Pulp - Production	1092	1261	117	106	98	106	1220	1.3
- Imports	186	192	7	21	15	12	161	-22.2
- Exports	631	647	61	72	52	38	543	0.6
- New Supply	647	806	63	54	61	79	838	-3.8
Paper Grades - Production	38478	42356	3704	3297	3601	3648	43489	9.2
Chemical Pulp - Imports	3302	3706	[illegible]	305	304	380	4102	32.6
- Exports	2736	2958	189	310	205	278	2894	18.5
- New Supply	40044	43105	3843	3292	3699	3750	44696	10.4
Groundwood and - Production	5064	5067	443	419	463	454	5502	10.9
Thermo-Mech. - Imports	167	195	26	20	19	28	283	91.0
- Exports	27	40	2	2	3	1	24	-46.2
- New Supply	5204	5222	467	436	479	481	5761	13.8
Semi-Chemical - Production	3699	3851	334	303	352	331	4098	11.3
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp	------
- New Supply	3699	3851	334	303	352	331	4098	11.3
MARKET WOOD PULP								
Total Market - Production	5732	6416	577	475	541	564	6631	15.5
Wood Pulp - Imports	2443	2945	239	293	231	274	3027	22.7
- Exports	3143	3422	249	315	259	317	3451	14.9
- New Supply	5031	5939	567	453	513	521	6207	19.3
Dissolving Pulp - Production	1089	1260	116	106	97	106	1217	1.1
- Imports	194	210	13	23	20	13	198	-4.0
- Exports	675	698	58	78	47	52	593	-8.6
- New Supply	608	772	72	50	70	67	822	6.1
Paper Grades - Production	4643	5144	459	368	443	458	5404	19.4
Chemical Pulp - Imports	2202	2698	222	266	204	254	2749	21.9
- Exports	2468	2724	191	237	211	265	2858	20.6
- New Supply	4377	5117	490	398	436	447	5294	20.1
Groundwood Pulp - Production	1	12	1	1	1	1	10	-10.5
and All Other - Imports	46	38	4	4	6	7	81	1008.1
- Exports	0	0	0	0	0	0	0	0.0
- New Supply	47	50	5	5	7	8	91	387.0

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

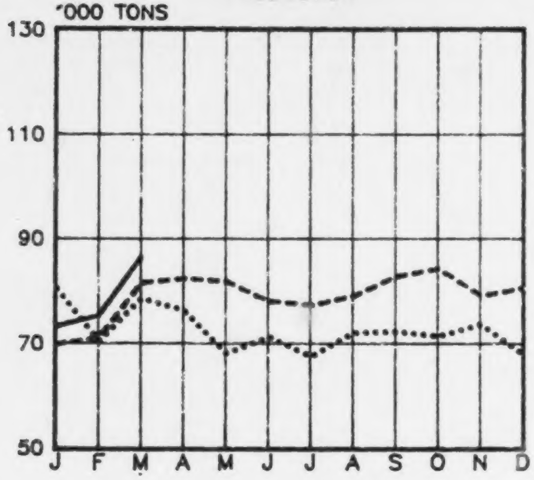
FIBROUS RAW MATERIALS
(Thousands of tons)

CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	61332	65499	5727	5245	5659	5783	68654	11.0
Total Wood Pulp	47767	50960	4452	4088	4367	4507	53244	11.0
Waste Paper	13565	14539	1275	1157	1292	1276	15410	11.2
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	177	172	192	172	151	143	143	-25.6
Market Pulp at Pulp Mills	437	380	484	380	394	351	351	-17.2
Mkt Pulp at Ppr. & Bd. Mills *	429	522	499	522	564	543	543	28.1
Waste Paper at Paper &Bd. Mills	1022	920	864	920	908	896	896	2.6
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	37	26	34	26	28	23	23	-34.3

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.
* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

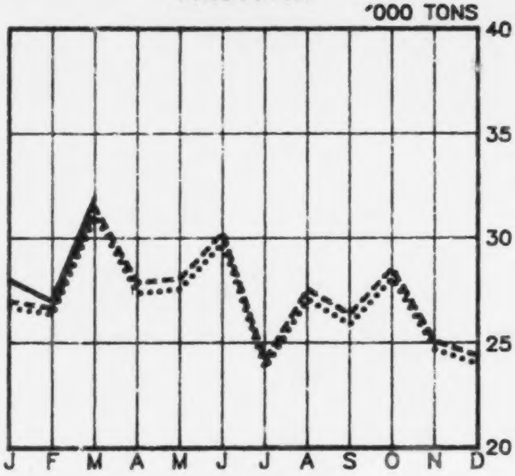
BLEACHED BRISTOLS

PRODUCTION



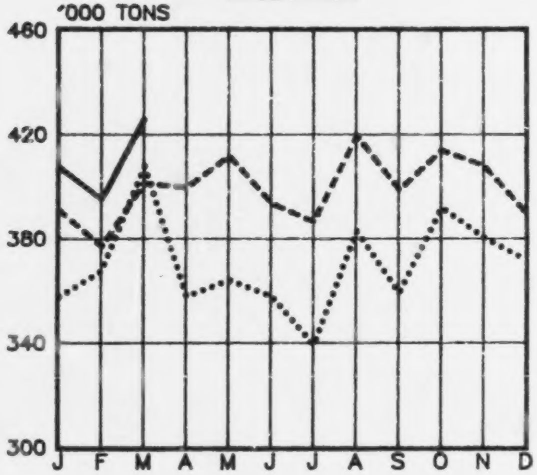
THIN PAPER

PRODUCTION



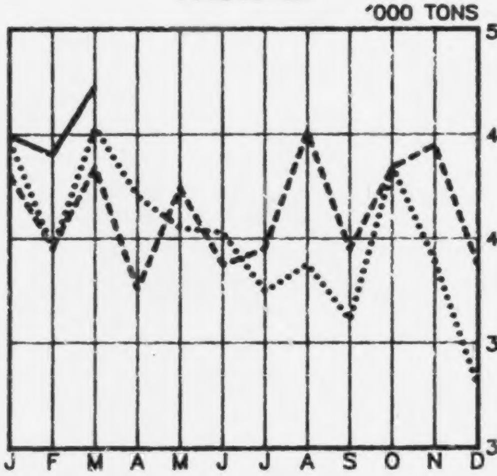
TISSUE PAPER

PRODUCTION



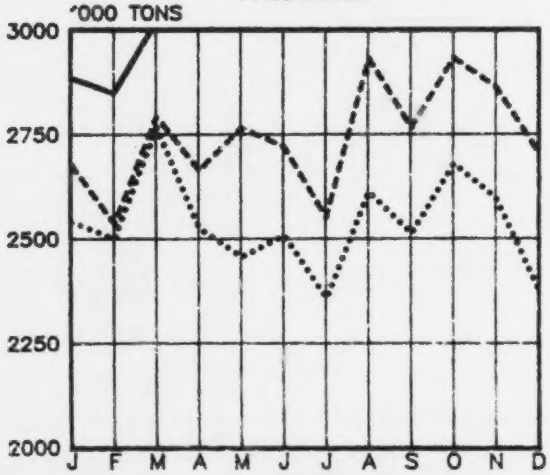
NEWSPRINT

PRODUCTION



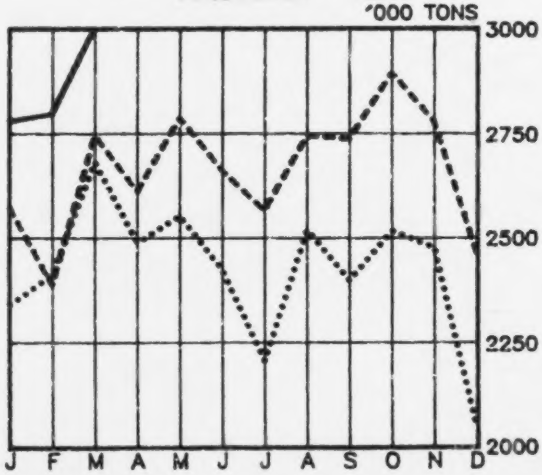
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1982 ········ 1983 ----- 1984 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1982	YEAR 1983	NOV. 1983	DEC. 1983	JAN. 1984	FEB. 1984	Annual Rate Y-T-D 1984	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78519	84475	7172	6691	7044	7434	86868	7.6
	- Total Consumpt.	79039	85442	7267	6741	7185	7295	86880	5.2
	- Residues *	31152	32755	2802	2506	2554	2813	32202	5.6
	- Inventories	5426	5229	5266	5229	5168	5192	5192	-3.8
So. Atlantic	- Total Receipts	23769	25736	2150	2067	2094	2204	25788	7.3
	- Total Consumpt	23725	25847	2153	2020	2151	2238	26334	4.3
	- Residues *	8273	7904	671	613	650	685	8010	5.9
	- Inventories	1165	1163	1103	1163	1101	1052	1052	4.0
Northeast	- Total Receipts	7283	7051	646	619	680	665	8070	8.8
	- Total Consumpt	7221	7274	663	600	678	642	7920	5.2
	- Residues *	1452	1199	117	107	106	114	1320	18.9
	- Inventories	652	577	543	577	587	621	621	-12.5
South Central	- Total Receipts	26510	29409	2538	2215	2305	2484	28734	6.2
	- Total Consumpt	27153	29152	2479	2282	2380	2483	29178	5.9
	- Residues *	8616	8218	779	645	703	757	8760	3.3
	- Inventories	1346	1536	1627	1536	1485	1455	1455	7.0
North Central	- Total Receipts	5601	6285	493	527	621	688	7854	6.1
	- Total Consumpt	5706	6343	551	494	574	542	6696	6.6
	- Residues *	1517	1822	146	145	102	146	1488	-23.5
	- Inventories	925	851	823	851	906	987	987	-8.6
West	- Total Receipts	15356	16014	1345	1263	1344	1393	16422	11.0
	- Total Consumpt	15234	16826	1421	1345	1402	1390	16752	4.8
	- Residues *	11294	12612	1089	996	993	1111	12624	10.9
	- Inventories	1338	1102	1170	1102	1079	1077	1077	-12.8

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

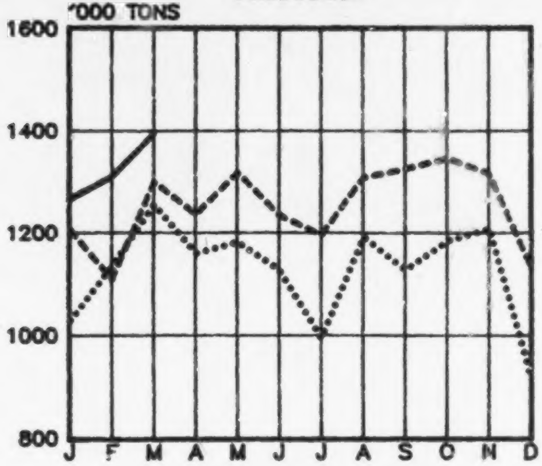
	YEAR 1983 Tons	YEAR 1983 $000	JAN. 1984 Tons	JAN. 1984 $000	FEB. 1984 Tons	FEB. 1984 $000	Annual Rate Y-T-D 1984	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	155124	7471	11557	526	12973	598	147180	58.0
Pulpwood Chips	1987168	48979	149841	3539	271444	5787	2527710	47.7
Wood Pulp, Total	3755201	1363975	327983	[illegible]	375767	144141	4222500	32.6
Waste Fibrous Materials, Total	157732	26491	11709	2043	14424	2477	156802	31.2
Paper, Board & Products, Total	8274914	3372726	774702	321245	745619	310640	9121930	31.2
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	8221322	3274062	769649	311512	739956	300844	9057625	30.9
Paper Paperboard & Products	7846516	3277974	750604	315594	711398	303220	8772008	32.5
Paper & Paperboard, Only	7792924	3179310	745550	305861	705734	293424	8707703	32.3
Paper, Total	7633585	3139193	725157	300412	683000	287550	8448940	30.6
Newsprint	6845135	2732234	650144	260300	611564	248265	7570248	29.7
Printing, Writing & Rel. Pap.	695907	348512	56062	34525	59726	32366	754729	33.9
Pack. & Ind. Conv. Paper	73209	46889	7866	4632	10367	5674	109394	74.2
Special Industrial Paper	2732	4473	226	370	328	576	3327	108.4
Tissue Paper	10602	7085	858	585	1016	670	11242	311.1
Paperboard, Total	159339	40117	20394	5449	22734	5874	258763	123.8
Convtd Paper&Paperbd Products	53592	98664	5054	9733	5664	9796	64305	73.0
Wet Machine Board	3036	1916	198	130	259	174	2743	5.4
Construction Paper & Board	425362	92836	23901	5522	33962	7246	347178	4.6

EXPORTS TO CANADA

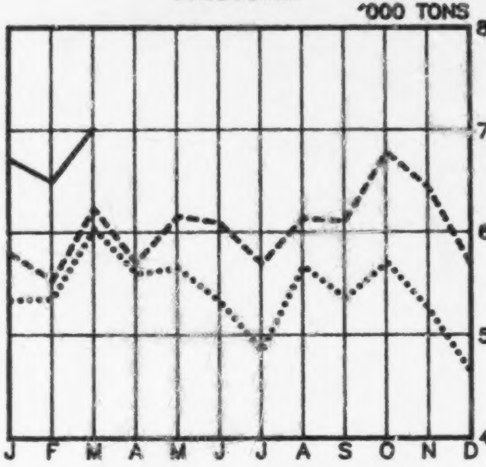
	YEAR 1983 Tons	YEAR 1983 $000	JAN. 1984 Tons	JAN. 1984 $000	FEB. 1984 Tons	FEB. 1984 $000	Annual Rate Y-T-D 1984	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	68965	4381	3534	242	2674	150	37248	-35.1
Pulpwood Chips	38246	2026	783	35	1703	80	14796	-3.7
Wood Pulp, Total	133633	55369	15909	7290	12315	5632	169344	32.7
Cotton Pulp & Other Pulp	9567	5287	1261	544	935	580	13176	82.7
Waste Paper	346809	39478	24663	2801	24879	3050	297252	8.6
Paper, Board & Products, Total	559229	471256	58294	41243	61454	42729	718487	16.2
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	448117	306687	39667	27823	43101	29561	496609	15.4
Paper, Paperboard & Products	628109	459325	56228	40416	59545	41819	694640	17.7
Paper & Paperboard, Only	416998	294756	37602	26996	41192	28650	472762	17.5
Paper, Total	230771	210626	21127	19018	25855	21463	281890	35.2
Newsprint	4312	3805	350	302	410	294	4556	19.4
Printing, Writing & Rel. Pap.	125110	101541	12138	10268	11366	10165	141027	16.7
Pack. & Ind. Conv. Paper	34403	20921	2587	1682	3582	2320	37009	69.4
Special Industrial Paper	63390	81389	5851	6442	10168	8433	96115	63.8
Tissue	3556	2969	202	324	329	252	3184	-5.9
Paperboard, Total	186226	84131	16475	7978	15337	7187	190872	-1.4
Convtd Paper&Paperbd Products	211112	164568	18627	13420	18353	13169	221878	18.1
Wet Machine Board	5289	2976	196	107	260	198	2735	-49.7
Construction Pap & Bd. E	25831	8955	1870	721	1643	712	21112	-7.6

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

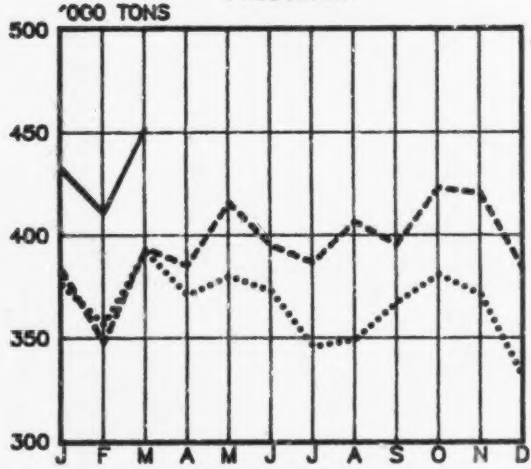
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



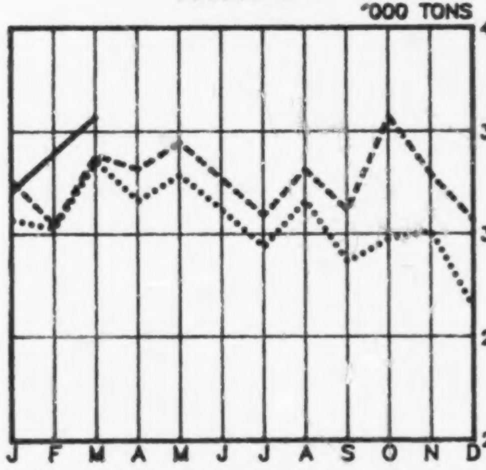
RECYCLED PAPERBOARD
PRODUCTION



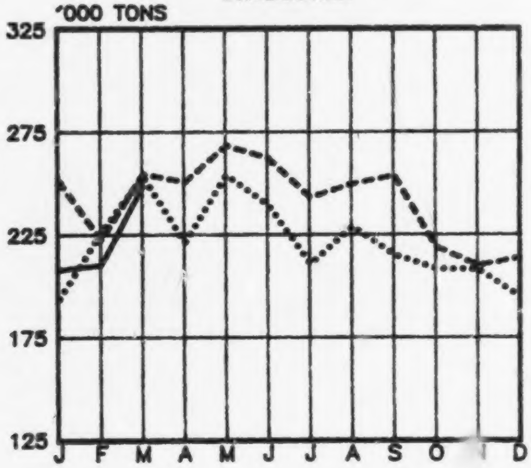
SEMICHEMICAL PAPERBOARD
PRODUCTION



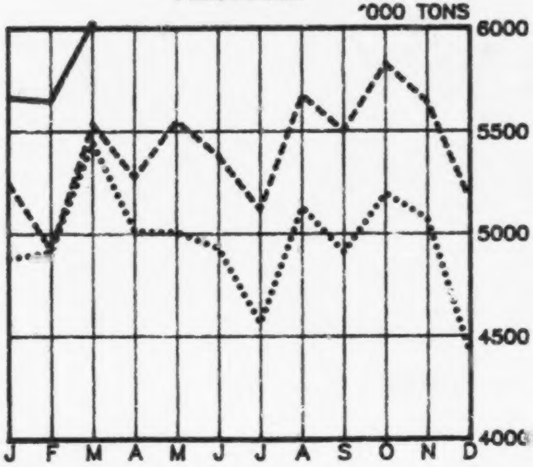
SOLID BLEACHED PAPERBOARD
PRODUCTION



PAPERBOARD FOR EXPORT
PRODUCTION



TOTAL PAPER AND PAPERBOARD
PRODUCTION



1982 ········ 1983 ----- 1984 ———

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1983 Tons	YEAR 1983 $000	JAN. 1984 Tons	JAN. 1984 $000	FEB. 1984 Tons	FEB. 1984 $000	(1) Annual Rate Y-T-D 1984	% Change From same Period Last Year
Pulpwood Roundwood (cords)	155124	7471	11557	526	12973	598	147180	58.0
Pulpwood Chips.	1991453	49104	149857	3541	271554	5794	2528466	47.7
Total All Imports	13248280	5526141	1236619	533422	1288582	557332	15151207	37.5
Wood Pulp Total	4093436	1472478	337494	124721	420082	158471	4545456	31.8
Waste Paper	100410	10537	7981	897	9271	921	103512	88.4
Other Fibrous Materials	68003	24272	4930	1973	6233	2151	66976	-12.0
Paper Board & Products Total	8986431	4018855	886214	405831	852996	385790	10435263	40.3
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	8834560	3582292	870713	364488	836179	352379	10241349	39.7
Paper Ppbd & Prds ex Cnst&WMB	8509180	3911591	859811	399621	815179	387482	10049941	42.2
Paper & Paperboard Only	8357309	3475028	844310	358279	798362	344071	9856027	41.7
Paper Total	8189491	3428868	821798	352175	773928	337594	9574355	40.0
Newsprint	6919348	2757524	663056	264092	621259	251553	7705890	31.4
Printing & Writing	1151011	587426	143923	77940	137325	75818	1687492	91.1
Uncoated Groundwood	732237	331017	73013	33423	70162	34021	859045	52.2
Uncoated Book	154147	88632	23648	14106	21777	13403	272547	67.1
Coated Print.& Impres. Pap	162441	101289	24370	15969	20701	13788	270422	148.9
Bristols	471	557	59	66	74	83	800	123.3
Writing and Similar Paper	81458	46718	18114	9970	19663	11030	226681	563.9
Thin (except Cigarette)	20258	19213	4721	4407	4949	3493	58018	377.5
Total Pks & Other Paper	107515	75694	13917	9503	14167	9430	168500	90.5
Unbleached Kraft Paper	42013	17454	4471	1975	6720	2698	67149	90.4
Other Pks. & Indust. Paper	65503	58240	9446	7528	7446	6732	101351	90.5
Tissue	11617	8225	902	640	1177	793	12474	252.1
Paperboard, Total	167818	46160	22511	6104	24434	6477	281671	137.0
Test or Containerboard	48119	13042	5940	1759	7152	2017	78557	198.8
Semi-Chemical Corrugating	69564	14509	10272	2328	11753	2666	132150	162.7
Other Paperboard	50136	18609	6299	2017	5528	1795	70964	67.9
Convtd Paper&Paperbd Products	151872	436563	15502	41343	16817	43411	193914	79.8
Paper Products, Total	124816	373966	13305	36450	14740	38736	168271	92.7
Paperboard Products, Total	27055	62597	2196	4893	2078	4676	25643	24.7
Wet machine Board	3584	2422	260	169	354	243	3682	21.8
Construction Paper & Board	473667	104842	25144	6041	37463	8065	381640	[illegible]
Notes								
Other: No Weight Avail. ($000)		148251		16261		14355	183697	56.8
Total Imports Incl. Other($000)		5674392		549683		571687	6728221	44.5

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	69497	4405	3534	242	2998	165	39192	-31.7
Pulpwood Chips	2554176	171269	230485	15374	133410	8028	2183370	1.0
Total All Exports	10888949	4221511	875607	340829	888451	350249	10584348	8.0
Wood Pulp,Total	3643963	1362022	259573	100225	317285	120606	3461148	14.3
Cotton Pulp and Other Pulp	102863	69805	9288	5978	9455	4546	112458	14.8
Waste and Old Paper	2573716	308915	265327	32734	230894	29554	2977326	27.7
Paper, Board & Products,Total	4568407	2480769	341419	201892	330817	195542	4033416	-7.1
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	3984277	1717768	291187	137629	277543	131534	3412377	-10.3
Paper, Ppbd & Prod ex Cnst&WMB	4501039	2448779	335153	198182	324262	191966	3956486	-7.5
Paper & Paperboard, Only	3916910	1685778	284921	133919	270987	127960	3335447	-10.8
Paper, Total	773414	599370	62601	51954	62721	49740	751933	2.8
Newsprint	294870	127119	23776	10517	21504	9492	271675	10.9
Printing & Writing	201798	198304	17770	18627	17246	17907	210093	10.3
Uncoated Groundwood	37289	33300	1966	2183	2082	1924	24284	-33.7
Clay Coated Paper	79182	60033	8460	6595	8235	6590	100169	37.5
Uncoated Free Sheet	59125	71662	5449	7167	5451	7341	65399	7.0
Other Printing & Writing	26202	33310	1895	2681	1479	2053	20240	2.2
Total Pkg. & Other Paper	260865	255086	20031	21416	22852	20948	257297	-8.6
Unbleached Kraft	116170	43227	8621	3868	7978	3041	99591	-36.3
Other Pkg. & Indust. Paper	144695	211859	11410	17548	14875	17907	157706	26.0
Tissue	15881	18861	1025	1394	1120	1393	12868	-11.3
Paperboard, Total	3143496	1086408	222320	81965	208266	78220	2583515	-14.1
Solid Wood Pulp	2993868	1016184	211297	76348	199667	74426	2465780	-14.2
Total Linerboard	2254538	575862	155177	43140	141858	39993	1782209	-14.2
Bleached Kraft Linerboard	160253	64914	15246	5951	17050	6562	193772	74.6
Unbleached Kraft Linerbd	2094285	510948	139931	37189	124808	33430	1588437	-19.2
Other Unbleached Kraft	107141	51822	11460	5446	5280	2979	100440	-29.5
Other Bleached Kraft	558431	371357	43314	27287	50735	30985	564296	2.8
Semi-Chemical Corrugating	73758	17144	1346	475	1794	470	18835	-81.8
Recycled Paperboard	149628	70224	11023	5617	8599	3794	117734	-13.8
Convtd Paper&Paperbd Products	584129	763001	50232	64263	53274	64008	621039	15.7
Paper Products, Total	311722	535596	25749	43741	27869	41160	321706	12.1
Paperboard Products, Total	272408	227406	24484	20522	25405	22847	299333	19.8
Wet Machine Board	11622	5420	831	592	938	404	10612	-19.8
Construction Paper & Board E	55746	26570	5435	3118	5618	3171	66317	30.1
Notes								
Other: No Weight Avail. ($000)		7965		370		559	5572	-1.8
Total Exports Incl. Other($000)		4229475		341198		350808	4152034	9.9

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1987 = 100

	1982	1983	DEC.	JAN.	FEB.	MARCH	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	273.2	271.4	276.8	280.0	283.3	286.4	283.2	5.4
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	275.9	273.3	277.9	281.2	284.2	287.1	284.2	4.7
Total Wood Pulp	379.1	347.1	351.3	364.4	371.5	376.0	370.6	7.4
Total Paper	286.3	282.3	288.9	294.3	296.6	299.2	296.7	6.4
Total Paper, exc. Newsprint	278.3	277.0	286.0	295.1	296.9	298.6	296.9	8.8
Newsprint	315.8	303.0	309.6	308.8	308.6	316.0	311.7	4.2
Total Paperboard	254.9	250.8	258.5	262.2	269.3	273.6	268.4	9.7
Total Paper and Paperboard #	276.5	272.4	279.7	284.2	288.0	291.2	287.8	7.4
Converted Products	264.4	265.4	268.0	269.4	271.6	274.1	271.7	2.5
Waste Paper	121.1	158.6	211.5	211.5	229.3	242.9	227.9	86.5
All Commodities	299.3	303.1	306.0	308.1	308.8	311.1	309.3	3.0
Industrial Commodities	312.3	315.7	318.4	319.2	320.4	321.9	320.5	2.1

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

Fibrous Raw Materials

While the pace of chemical paper grade market pulp production slackened somewhat in March 1984 from the 103% operating rate in February, the March rate was still in the neighborhood of 97%; the production of 470,000 short tons brought the first quarter total to a record high rate of 5.5 million tons per year, about 12% above the year-ago rate. For all of 1983, the production of chemical paper grade market pulp amounted to 5.14 million tons.

One of the major impacts of the strike at pulp mills in British Columbia, which was in effect thoughout the month of March, was on inventories of market pulp at producers. For all North America and Nordic producers, inventories at the end of December 1983 amounted to 1.33 million tons; at the end of March 1984 they had fallen to 1.0 million tons. For U.S. producers, the pattern was similar; inventories fell from 423,000 short tons at the end of 1983 to 323,000 tons at the end of March. However, the British Columbia mills have since re-opened although, as noted elsewhere in this report, the issues have not been resolved as of this writing.

Although the level of shipments of chemical paper grade market pulp in March 1984 was only 2% above the March 1983 level, the first quarter total increased by 14%. Shipments to the U.S. market rose by 16%; export shipments 11%. The gains in exports continued to be concentrated in the markets outside Western Europe; shipments to Western Europe declined 1%

Continued from Page 10

while shipments to Japan rose by 46% and shipments to all other markets combined by 16%.

Total wood pulp production in the first two months of 1984 was at the record high rate of 54.3 million tons per year, some 9% over the year-ago level. This was equivalent to 96% of the available capacity as of the beginning of 1984, as reported in the API's annual Capacity Survey. Dissolving pulp production rose by only 1.3%, while the paper grade pulps showed gains in the 9-11% range, as shown in the table on page 5.

Consumption of waste paper at paperboard mills for the entire first quarter of 1984 was 11% above the comparable 1983 figure.

Capital Expenditures

The Department of Commerce's forecast of an increase in capital expenditures in 1984 to 7.13 billion, 15% over the 6.18 billion spent in 1983, is fairly well supported by the most recent data available from the Conference Board on capital appropriations by paper and allied products companies. The Conference Board reported that newly approved appropriations for expenditures on plant and equipment in the fourth quarter of 1984 for the companies reporting in their sample (the paper and allied products producers included in the 1000 largest corporations in the U.S.) amounted to $1.2 billion. This compares to the $667 million appropriated in the third quarter and $1.36 billion appropriated in the entire first half of the year. Moreover, this figure was the highest quarterly total since the first quarter of 1982, when these companies appropriated $2.1 billion for these purposes.

For 1983 as a whole, appropriations were roughly 20% below the total appropriated in 1982. In addition, the Conference Board also reported that $590 million of previously approved appropriations were cancelled in the fourth quarter of 1983, but they were probably projects that had been on the books for some time. API is not aware of any cancellation of major recently announced projects.

For the year as a whole, capital expenditures by the companies in the reporting sample were about 8% below the 1982 total, a pattern consistent with that shown by the total industry. Thus, while newly-approved appropriations nearly matched capital expenditures, the $840 million worth of projects cancelled during the course of the year resulted in a decline in the unfilled order backlog from $5.1 billion at the end of 1982 to $4.1 billion at the end of 1983; the year-end level was equivalent to about 1.2 years of capital expenditures by these companies at their 1983 average rate.

Continued on Page 12

Continued from Page 11

Sales and Earnings

Thirty-two paper and allied production companies reported net sales in the first quarter of 1984 at 21% ahead of the first quarter 1983 level. These companies accounted for nearly two-thirds of the total sales by all paper and allied product companies as reported by the Bureau of Census in its Quarterly Financial Reports for Manufacturing (and other) Corporations. Net profits after taxes of these same companies rose by 68%, bringing the margin on sales from 3.1% in the first quarter of 1983 to 4.3% in the first quarter of 1984. This compares to the 5.0% margin for all paper and allied product companies achieved in both 1980 and 1981.

April 30, 1984

	Full Year		INDUSTRY DATA			1984 Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			1983-1984				
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1982	1983	January	February	March		
Total Production (API).......| excluding |...	59488	64868	5666	5647	6030	69371	10.4
Total Seasonally Adjusted....|construction|...			5731	5721	5591	68175	9.2
Imports (including Products).| ~~and wet~~ |..E	7603	8509	860	815	N.A.	10100	36.5
Exports (including Products).| machine |..E	4187	4501	335	324	N.A.	4158	-7.6
Apparent Consumption.........| grades |...	62904 a	68876b	6256	6212	6061	74112c	+12.5
Paper Production % Tonnage Capacity...........	87.8s	93.5s	93.9	98.1	97.2	97.2sh	-
Paperboard Production % Tonnage Capacity......	82.1s	89.7s	90.6	97.0	96.7	96.2s	-
			December	January	February		
IMPORTS.....|Including Construction and |.....	8024	8986	775	886	853	10435	40.3
EXPORTS.....| WMB Grades (excl. HPB) |.....	4246	4568	360	341	331	4023	-7.1
MARKET WOOD PULP PRODUCTION - Tons (000)........	5732	6416	475	541	564	6631	15.5
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	49334	52535	4124	4513	4538	54309	9.3
WOOD PULP IMPORTS - TONS (000)..................	3656	4093	345	337	420	4545	31.8
WOOD PULP EXPORTS - TONS (000)..................	3395	3644	384	260	317	3461	14.3
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			December	January	February		
Wood Pulp.............|consumption for|.....	47767	50960	4088	4367	4507	53244	11.0
Waste Paper...........|construction & |.....	13565	14539	1157	1292	1276	15410	11.2
TOTAL..........| WMB grades |.....	61332	65499	5245	5659	5783	68654	11.0
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79039	85442	6741	7185	7295	86880	5.2
EMPLOYMENT (000)			January	February	March		
Paper and Allied Products..........Total......	662.0	658.7	666.9	668.3	669.8	668.3	3.1
Pulp, Paper and Board Mills.........Total.....E	257.8	253.7	255.0	255.9	256.5	255.8	1.8
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products......................	9.32	9.93	10.22	10.21	10.25	10.23	5.9
Pulp, Paper Mills...........................E	10.88	11.71	12.11	12.11	12.15	12.12	7.3
Paperboard Mills............................E	11.13	12.11	12.53	12.53	12.55	12.54	7.6
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q3	1983 Q4	1984 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.97	6.18	6.18	6.24	7.07	7.13y	15.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			January	February	March		
|IN PULP, PAPER |...Production Workers.........	109.9	121.5	126.0	125.1	122.3	124.5	3.4
|AND BOARD MILLS|...All Employees..............	108.3	120.0	125.5	124.9	121.9	124.1	5.1
PAPER AND ALLIED PRODUCTS (Million $)			December	January	February		
Industry Shipments (Dept. of Commerce)*.......	78992	85662	7701	7743	7797	93240	16.1
Pulp, Paper and Paperboard*.................	33523	36346	3340	3347	3398	40470	18.3
Inventories (End of Period) - Total Industry*.	8607	8729	8729	8829	8098	8898	4.9
Pulp, Paper and Paperboard*.................	3365	3263	3263	3257	3293	3293	-1.9
			1983 Q3	1983 Q4	1984 Q1		
Sales (Corporations Only, FTC)...............	60293	66100	16797	17279	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC)............	1460	2337	678	675	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC)........	2379	2645	688	655	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)...........	26705	27509	27381	27509	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			January	February	March		
Pulp, Paper & Products, ex. Building Grades...	273.2	271.4	280.0	283.3	286.4	283.2	5.4
Wood Pulp.....................................	379.1	347.1	364.4	371.5	376.0	370.6	7.4
Waste Paper...................................	121.1	158.6	211.5	229.3	242.9	Not Available	
Paper...	286.3	282.3	294.3	296.6	299.2	296.7	6.4
Paperboard....................................	254.9	250.8	262.2	269.3	273.6	268.4	9.7
PAPER DEMAND (INDEXED: 1967=100)			January	February	March		
Total Paper Production *......................	145.4	157.3	166.6	164.4	160.5	163.9	8.1
Paper New Supply *............................	135.1	147.6	161.0	157.2	154.9	157.7	12.6
Total End - Use Index *....................	149.5	157.8	167.3	168.3	168.8	168.1	11.7
Production of Nondurable Goods *...(19%)..	156.1	168.0	175.3	177.0	177.3	176.5	11.0
Disposable Income (Constant $) *...(23%)..	157.8	163.4	170.7	172.0	172.0	171.6	7.0
Total Printing and Publishing *...(58%)..	144.0	152.3	163.4	163.9	164.7	164.0	14.1
Trend Factor	------Not Available------						
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	127.6	140.2	148.5	150.0	146.7	148.4	10.2
Production for Domestic Use	122.7	134.9	145.7	147.2	141.6	144.9	12.2
Total End - Use Index *....................	139.5	148.9	158.2	159.3	159.9	159.2	13.5
Production of Consumer Goods *...(60.49%)	142.7	151.8	159.5	159.9	160.3	159.9	11.2
Production of Equipment *...(6.62%)	139.8	140.8	154.7	156.3	157.1	156.0	16.5
Production of Materials *...(32.89%)	133.7	145.2	156.5	158.9	159.8	158.4	17.5
Trend Factor	------Not Available------						
NEWSPRINT MARKETS			December	January	February		
Consumption by Publishers - Tons (000).........	11141	11671	1052	934	969	11418	10.1
Newspaper Pub. and Printing Empl. Total(000)..	417.5	421.6	430.2	428.2	429.2	428.7	3.4
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	121617	RS N.A.	N.A.	8933	11174	120642	6.0
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	22776	26532	2439	2423	2405	28968	20.8
Inventories (End of Period)	1885	2341	2341	2371	2322	2322	17.6
FIBRE BOX DATA (Fibre Box Association)			January	February	March		
Fibre Box Shipments (Million square feet)......	235185	252538	21872	21823	23650	269380	11.7
Container'bd Inventory at Mill & Plant(000Tons)	2584	2437	2408	2466	2477	2477	2.6
RETAIL TRADE (Million $)							
Total Retail Sales *.........................	1074467	1171915	106602	105744	103400	1262984	14.1
Nondurable Goods Stores Sales *..............	753568	793398	69475	68779	68150	825616	7.6
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	138.6	147.6	158.4	160.0	160.7	159.7	15.3
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	299.3	303.1	308.1	308.8	311.1	309.3	3.0
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	289.1	298.4	305.2	306.6	307.3	306.4	4.5
			December	January	February		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	344.8	387.9	387.9	386.4	399.2	399.2	17.3
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1983 Q3	1983 Q4	1984 Q1		
G.N.P. or Expenditure - Current $.............	3073.0	3310.5	3362.2	3436.2	3541.2	3541.2	11.7
G.N.P. or Expenditure - 1972 $................	1485.4	1535.3	1553.4	1572.5	1604.3	1604.3	7.7

lb/capita

Par&Parbd	Othr	Totl	Popul(mil)
.a - 543 +	15 =	558	232.0
.b - 589 +	18 =	607	234.2
.c - 631 +	18 =	649	234.9

.E - Last month estimated by API
.e - estimated by API

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

APRIL 30, 1984

	PRODUCTION (000 TONS)					
	March 1984	Feb. 1984	March 1983	Jan -March 1984	- 1983	% Change 84/83
PAPER GRADES	P	R				
Newsprint	478	452	448	1390	1309	6.2
Printing & Writing	1592	1514	1479	4638	4150	11.8
Uncoated Groundwood (s)	143	133	123	413	348	18.9
Coated Paper (s)	537	518	460	1568	1329	18.0
Uncoated Free Sheet Paper (s)	782	750	773	2298	2135	7.7
Thin Paper (s)	32	27	32	87	85	2.1
Cotton Fiber Paper (s)	12	12	11	36	31	14.9
Bleached Bristols (s)	87	75	82	235	223	5.7
Tissue Paper	426	395	401	1228	1169	5.0
Total Pkg & Other Paper	527	488	467	1502	1380	8.8
Unbleached Kraft Packaging & Indl. Converting (s)	352	322	316	996	954	4.4
Other Paper *	176	166	151	507	427	18.8
TOTAL PAPER	3023	2849	2795	8757	8008	9.4
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1496	1399	1390	4252	3857	10.2
Unbleached Kraft Linerboard	1394	1309	1298	3969	3609	10.0
Other Unbl. Kraft Paperboard	102	90	92	283	248	14.2
Semichemical Paperboard	452	410	393	1293	1123	15.2
Bleached Paperboard	357	340	339	1019	969	5.1
Recycled Paperboard	702	649	624	2022	1756	15.1
TOTAL PAPERBOARD	3007	2798	2746	8585	7704	11.4
TOTAL PAPER AND PAPERBOARD	6030	5647	5541	17343	15712	10.4

WOOD PULP (ALL GRADES)	Feb. 1984	Jan. 1984	Feb. 1983	Jan - Feb. 1984	- 1983	% Change 84/83
Dissolving & Special Alpha	106	98	112	203	201	1.3
Bleached Sulfite	105	108	103	213	211	0.9
Unbleached Sulfite	24	25	28	49	59	-16.4
Bleached & Semi-Bl. Sulfate	1819	1781	1606	3599	3315	8.6
Unbleached Sulfate	1700	1687	1470	3387	3053	10.9
Semichemical	331	352	289	683	614	11.3
Groundwood and Thermomechanical	454	463	405	917	827	10.9
TOTAL PULP DIVISION DATA	4538	4513	4013	9052	8279	9.3

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

6/12/84
A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 62 - No. 5 May, 1984

Demand Continues Strong

Demand for paper and paperboard remains at the record-high pace evident since last October. The April 1984 trend position of production, for example, (the average of the seasonally adjusted rates for March and April) was at the rate of 67.8 million tons per year, very close to the 68.3 million rate for the entire January-April period. The total tonnage produced in that period was up 10.0%, reflecting the extra leap-year day in 1984.

Paper: The trends among the various grades of paper have also stayed on the tracks established in the final months of 1983. Production of the printing paper grades, for example, continue to show important gains, with the January-April 1984 production for all such grades up 10.8% from its comparable 1983 level. Newsprint production, after a slow start in 1983 moved 8.5% over its comparable 1983 level in the first four months of 1984. The tissue paper grades are holding the gains established in 1983; their January-April 1984 production rate of 4.9 million tons per year is a record high. The packaging and industrial paper grades are also sharing in the current strength, running an average 10% above year-ago rates.

The current record-high rates of domestic newsprint production reflect the upsurge in newspaper publishing activity since mid-1983. In the first half of 1983 the seasonally adjusted rate of newsprint consumption was about 11.5 million tons per year, which was about where it had been for the previous four years. Demand started to rise before mid-year, and by early 1984 was at the rate of 12.2 million tons per year. This increase in demand not only brought domestic production to new highs, but also stimulated newsprint imports. Data available for the first three months of 1984 show imports of newsprint at the rate of 7.5 million tons per year, 17.4% above the comparable 1983 level and at the highest rate since 1978.

Continued on Page 2

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Continued from Page 1

Import demand was also stimulated by the strength in printing paper demand. With domestic production running close to effective capacity levels, imports have become an important addition to the domestic supply. Uncoated groundwood paper demand in the U.S., as noted in earlier reports, has been increasingly filled by imports. Last year imports of uncoated groundwood papers amounted to 732,000 tons, 33% of the total new supply of 2,225,000 tons. Domestic production was 1,530,000 tons. In the first three months of 1984 groundwood paper imports were at an annual rate of 913,000 tons, 56% above the total imported in the first three months of 1983, although only 25% above the full 1983 average rate. Domestic production of uncoated groundwood papers in the first four months of 1984 was at the annual rate of 1.6 million tons.

Coated paper production paced the rise in printing paper grades. Production of coated papers in the first four months of 1984 was at the rate of 6.2 million tons per year, 16.7% above its comparable 1983 level. The rate of imports of coated papers averaged 293,000 tons per year, gaining 173% from its year-ago rate. The strength in demand was evident in all the major coated paper markets, including magazines and commercial printing.

While uncoated free sheet paper production was also at record high rates, showing a 7.5% gain from year-earlier rates and holding above 9 million tons per year, imports have been unusually strong.

Imports of the printing paper grades of uncoated free sheet papers in the first three months of 1984 were nearly twice their year-ago rate, at nearly 300,000 tons per year, while imports of the writing paper grades were an astonishing 6.5 times their year-ago level, at 257,000 tons per year. At the same time, some of the upward pressures in the markets are easing; the backlog of unfilled orders has drifted downward since the end of 1983, moving from 686,000 tons to 522,000 tons at the end of April 1984.

Paperboard: The strength in paperboard production was also fairly well distributed among its various grades. Production of containerboard for domestic use in the first four months of 1984 showed a 13% gain over its year-ago level, maintaining the rising trend evident in the previous three quarters. This pattern of growth was fairly consistent with the 11% gain in shipments of corrugated shipping containers

Continued on Page 10

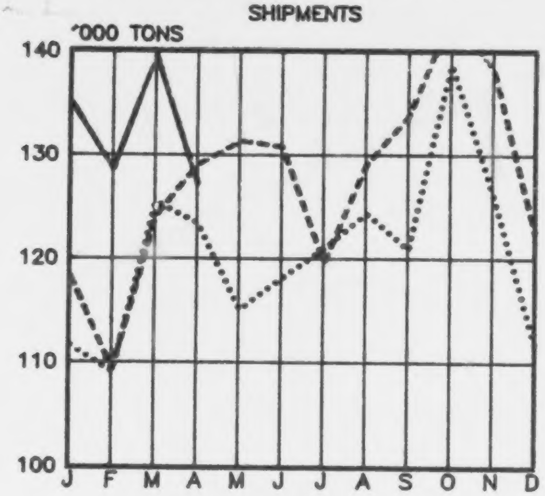
PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

	YEAR		JAN.	FEB.	MARCH	APRIL	Annual Rate Y-T-D	% Change from same Period Last Year
	1982	1983	1984	1984	1984	1984	1984	
PAPER					R	P		
Newsprint - Production	5042	5167	459	452	478	465	5564	8.5
- Shipments	4988	5153	457	454	500	484	5684	16.4
Printing & Writing	15643	17374 R#	1532	1517	1621	1508	18536	10.8
Groundwood Paper - Shipments	1459	1530 R	135	129	140	127	1592	10.4
- New Orders	1468	1581	143	148	140	133	1683	16.6
- Unfilled Orders	91	159	157	179	182	193	193	89.2
Coated Paper - Shipments RS	5032	5696 R	508	512	531	507	6172	16.7
- New Orders	4898	5896	496	527	549	510	6249	14.5
- Unfilled Orders	325	546	520	540	555	564	564	46.0
Unctd Free Sheet - Shipments	7847	8757 R	777	760	813	744	9281	7.5
- New Orders	7820	9066	739	725	819	687	8909	-1.5
- Unfilled Orders	321	686	623	597	612	522	522	5.9
Thin Paper - Shipments	323	328	28	28	32	29	349	2.9
Cotton Fiber Paper - Shipments	118	130 R	12	12	13	11	143	10.7
Bleached Bristols - Production	865	834 R	73	77	93	90	1000	10.8
Tissue Paper - Production	4438	4790	407	395	426	405	4888	4.1
Total Packaging & Other Paper	5300	5606	487	488	527	497	5886	9.9
Unbl. Kraft Paper - Shipments	3688	3792	322	322	352	334	3990	6.9
Other Paper - Production	1612	1814	165	166	175	163	2008	16.5
TOTAL PAPER-Production-UnadJ. *	30422	32936	2886	2852	3053	2875	34985	9.3
-Production-S.A. *			2909	2872	2830	2866	34429	8.4
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	22589	24779	2113	2152	2312	2201	26335	8.7
Unbl. Kraft Linerboard (1)	13494	15001	1266	1309	1397	1332	15810	9.8
Production for Export	1931	2281	154	152	190	169	1995	-11.5
Other Unbl. Kraft Paperboard	1040	1121	94	95	106	95	1168	7.8
Semichemical Paperboard	4389	4730	431	410	451	427	5156	14.1
Production for Export	185	193	12	13	14	13	159	-23.3
Solid Bleached Paperboard	3665	3926	322	340	358	348	4101	5.0
Production for Export	525	514	40	42	44	42	503	-10.3
Recycled Paperboard	6476	7398	682	657	717	687	8229	14.4
Production for Export	13	24	1	1	1	1	14	-24.2
TOTAL PAPERBOARD-Prod.-UnadJ. *	29065	32177	2795	2810	3029	2888	34564	10.8
- Containerboard Prod.(Dom. Use)	17508	19173 R#	1697	1710	1810	1739	20870	13.0
- Boxboard Prod.(Dom. Use) (2)	5150	5551	484	490	531	506	6035	9.4
- All Other P'bd Prod.(D.U.) (2)	3753	4397	405	401	439	418	4886	19.8
- Total Paperbd Prod. for Export	2654	3012	208	208	249	225	2671	-12.2
TOTAL PAPERBOARD PROD.- S.A. *			2837	2864	2810	2790	33805	10.0
TOTAL PAPER AND PAPERBOARD								
Production - actual *	59488	65113 R#	5680	5661	6082	5763	69580	10.0
Production - S.A. *			5746	5736	5639	5657	68334	9.2

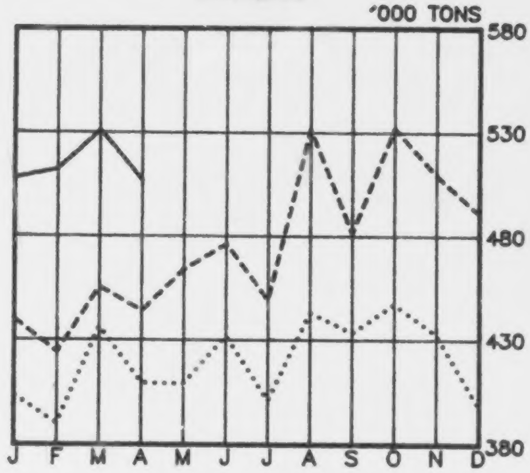
(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* NOTE: Year 1984 contains one more day than year 1983.
RS Revised Series: 1983-84 data not fully comparable with earlier figures.
R# 1983-84 Grade data revised on the basis of annual survey by A.P.I. Divisions.

P Preliminary
R Revised
S.A. Seasonally Adjusted



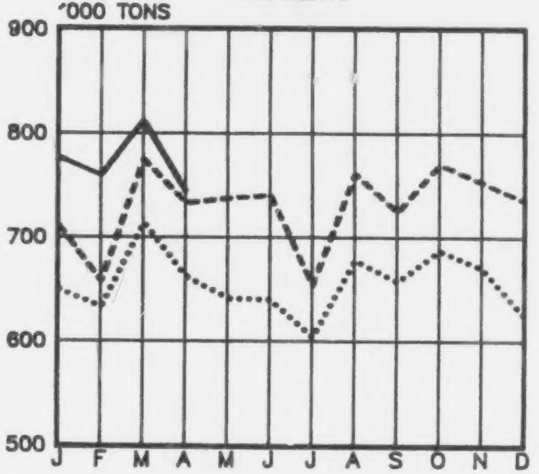
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



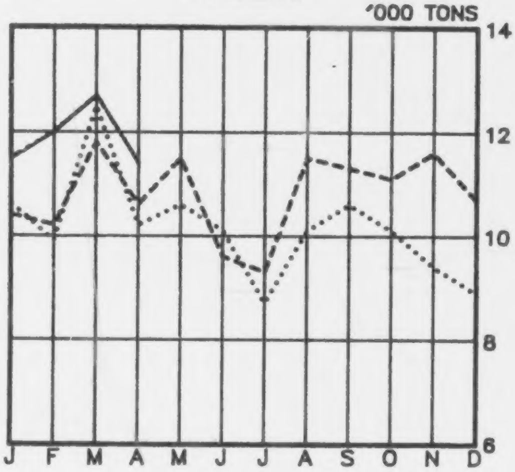
COATED PAPER

SHIPMENTS



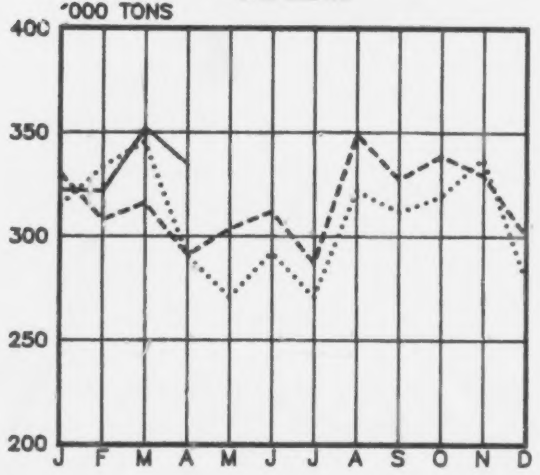
UNCOATED FREE SHEET PAPERS

SHIPMENTS



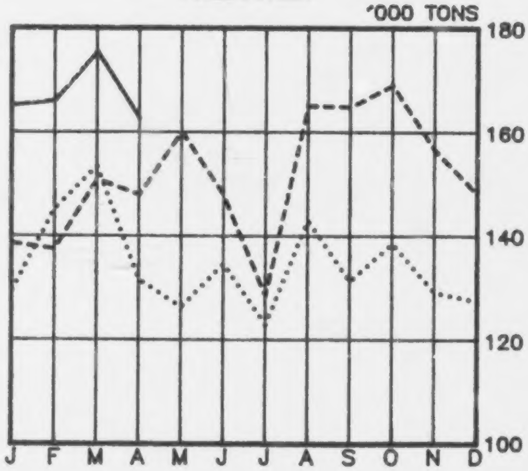
COTTON FIBER PAPER

SHIPMENTS



UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION

1982 ········ 1983 - - - - 1984 ———

WOOD PULP STATISTICS

(Thousands of Tons)

		YEAR 1982	YEAR 1983	DEC. 1983	JAN. 1984	FEB. 1984	MARCH 1984	Annual Rate Y-T-D 1984	% Change From same Period Last Year
TOTAL WOOD PULP						R	P		
Total Wood Pulp	- Production	48334	52537	4124	4513	4539	4858	55642	8.3
	- Imports	3656	4093	345	337	420	341	4384	20.4
	- Exports	3395	3644	384	260	317	374	3802	13.6
	- New Supply	49595	52986	4085	4591	4642	4825	56234	8.8
Dissolving Pulp	- Production	1092	1261	106	88	106	106	1236	-1.2
	- Imports	186	192	21	15	12	20	188	-16.1
	- Exports	631	647	72	52	38	74	657	11.1
	- New Supply	647	806	54	61	79	52	766	-13.2
Paper Grades Chemical Pulp	- Production	39478	42358	3297	3601	3651	3921	44692	8.1
	- Imports	3302	3706	305	304	380	301	3938	18.8
	- Exports	2736	2958	310	205	278	295	3111	14.6
	- New Supply	40044	43106	3292	3699	3754	3926	45518	8.6
Groundwood and Thermo-Mech.	- Production	5064	5067	419	463	454	466	5532	9.8
	- Imports	167	195	20	19	28	20	269	87.5
	- Exports	27	40	2	3	1	4	33	-17.6
	- New Supply	5204	5222	436	479	481	482	5768	12.0
Semi-Chemical	- Production	3698	3851	303	352	328	365	4182	11.8
	- Imports	0	0						
	- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
	- New Supply	3699	3851	303	352	328	365	4182	11.8
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	5732	6478	481	537	566	592	6779	10.0
	- Imports	2443	2945	293	231	274	283	3152	23.1
	- Exports	3143	3421	315	259	317	332	3630	8.6
	- New Supply	5031	6002	459	509	523	543	6301	17.1
Dissolving Pulp	- Production	1089	1260	106	97	106	106	1234	-1.4
	- Imports	194	210	23	20	13	21	217	-4.1
	- Exports	675	698	79	47	52	83	726	0.5
	- New Supply	608	772	50	70	67	44	724	-4.1
Paper Grades Chemical Pulp	- Production	4643	5206	374	439	459	485	5533	13.0
	- Imports	2202	2698	266	204	254	258	2870	23.5
	- Exports	2468	2723	237	211	265	250	2904	10.9
	- New Supply	4377	5181	404	432	448	495	5499	19.5
Groundwood Pulp and All Other	- Production	1	12	1	1	1	1	12	0.0
	- Imports	46	38	4	6	7	3	65	550.2
	- Exports	0	0	0	0	0	0	0	0.0
	- New Supply	47	49	5	7	8	4	77	249.9

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS

(Thousands of tons)

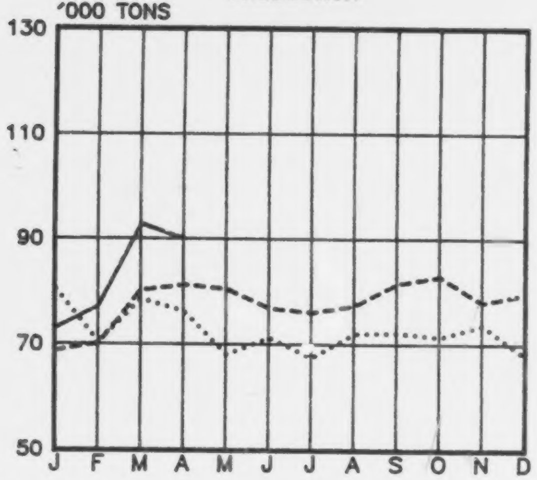
	YEAR 1982	YEAR 1983	DEC. 1983	JAN. 1984	FEB. 1984	MARCH 1984	Annual Rate Y-T-D 1984	% Change From same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	61332	65500	5246	5659	5801	6038	69885	9.9
Total Wood Pulp	47767	50961	4089	4367	4525	4649	54165	9.6
Waste Paper	13565	14539	1157	1292	1276	1389	15830	10.7
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	177	170	170	151	142	154	154	-20.3
Market Pulp at Pulp Mills	437	384	384	394	351	323	323	-20.7
Mkt Pulp at Ppr. & Bd. Mills *	429	522	522	564	546	604	604	29.3
Waste Paper at Paper &Bd. Mills	1022	920	920	908	896	886	886	3.6
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	37	26	26	28	23	21	21	-32.3

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

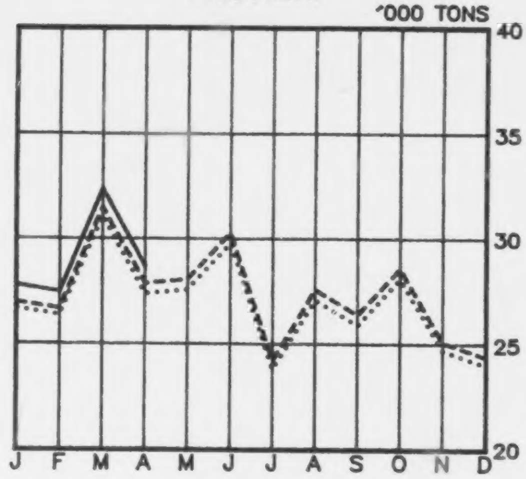
BLEACHED BRISTOLS

PRODUCTION



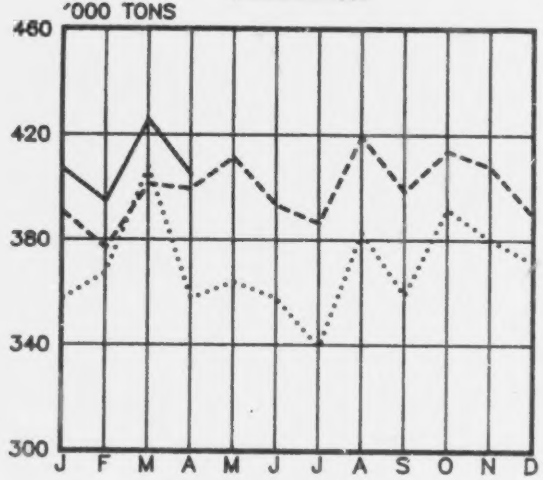
THIN PAPER

PRODUCTION



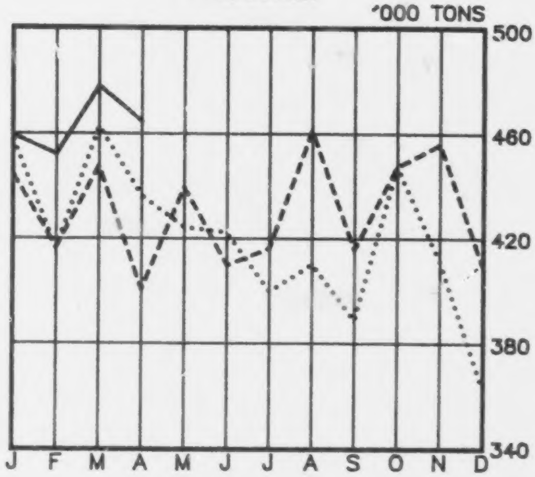
TISSUE PAPER

PRODUCTION



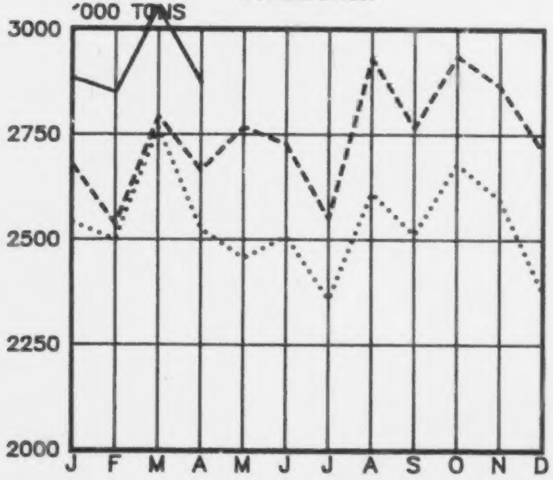
NEWSPRINT

PRODUCTION



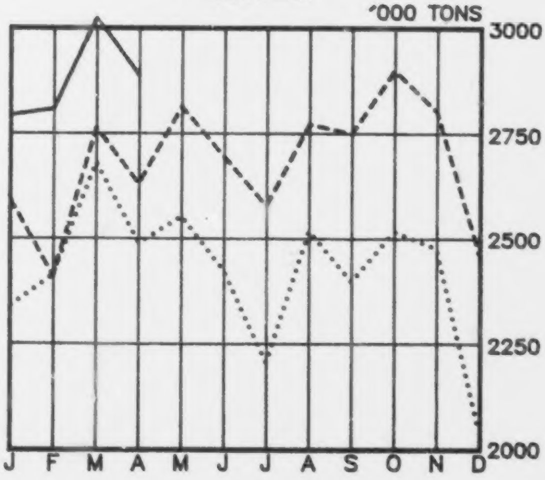
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1982 .... 1983 - - - - 1984 ———

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR		DEC.	JAN.	FEB.	MARCH	Annual Rate Y-T-D 1984	% Change From same Period Last Year
		1982	1983	1983	1984	1984	1984		
PULPWOOD									
Total U.S.	- Total Receipts	78519	84475	6691	7044	7434	7689	88668	8.1
	- Total Consumpt.	79039	85442	6741	7185	7295	7660	88580	4.8
	- Residues *	31152	32755	2506	2554	2813	2876	32972	4.9
	- Inventories	5426	5229	5229	5168	5192	5157	5157	0.9
So. Atlantic	- Total Receipts	23769	25736	2067	2094	2204	2243	26164	6.5
	- Total Consumpt	23725	25847	2020	2151	2238	2275	26656	3.1
	- Residues *	8273	7804	613	650	685	688	8096	6.1
	- Inventories	1165	1163	1163	1101	1052	1017	1017	12.6
Northeast	- Total Receipts	7283	7051	619	680	665	860	8020	11.5
	- Total Consumpt	7221	7274	600	678	642	673	7872	5.9
	- Residues *	1452	1199	107	106	114	113	1332	9.9
	- Inventories	652	577	577	587	621	611	611	-6.9
South Central	- Total Receipts	26510	29409	2215	2305	2484	2625	29856	5.2
	- Total Consumpt	27153	29152	2282	2380	2483	2641	30016	4.8
	- Residues *	8616	9218	645	703	757	762	8888	-0.0
	- Inventories	1346	1536	1536	1495	1455	1350	1350	1.5
North Central	- Total Receipts	5601	6265	527	621	688	634	7772	13.9
	- Total Consumpt	5706	6343	494	574	542	611	6908	7.6
	- Residues *	1517	1822	145	102	146	130	1512	-21.6
	- Inventories	825	851	851	906	987	1030	1030	4.3
West	- Total Receipts	15356	16014	1263	1344	1393	1527	17056	12.0
	- Total Consumpt	15234	16826	1345	1402	1390	1460	17008	6.0
	- Residues *	11284	12612	996	993	1111	1182	13144	11.6
	- Inventories	1338	1102	1102	1078	1077	1149	1149	-6.7

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1983		FEB. 1984		MARCH 1984		Annual Rate Y-T-D 1984	% Change From same Period Last Year
	Tons	$000	Tons	$000	Tons	$000		
Pulpwood, Roundwood (in cords of 128 cubic feet)	155124	7471	12973	598	17448	849	167912	88.1
Pulpwood Chips	1987188	48979	271444	5787	336034	7033	3028276	52.6
Wood Pulp, Total	3755201	1363975	375767	144141	319539	125515	4083156	19.5
Waste Fibrous Materials, Total	157732	26491	14424	2477	12898	2108	156126	23.1
Paper, Board & Products, Total	8274914	3372726	745619	310640	719817	305224	8860556	17.4
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	8221322	3274062	739856	300844	714224	294790	8895310	17.3
Paper Paperboard & Products	7846516	3277974	711398	303220	681752	286508	8575015	18.9
Paper & Paperboard, Only	7792924	3179310	705734	293424	676159	286074	8508770	18.8
Paper, Total	7633585	3139193	683000	287550	654096	279954	8249012	17.4
Newsprint	6845135	2732234	611564	248265	581886	238439	7374376	16.3
Printing, Writing & Rel. Pap.	695807	348512	59726	32366	61900	33865	750754	24.7
Pack. & Ind. Conv. Paper	79209	46889	10367	5674	8551	5075	107135	45.9
Special Industrial Paper	2732	4473	328	576	321	509	3503	50.1
Tissue Paper	10602	7085	1016	670	1438	865	13245	152.7
Paperboard, Total	159339	40117	22734	5874	22082	6120	260757	87.2
Convtd Paper&Paperbd Products	53592	98664	5664	9796	5594	10434	65245	44.9
Wet Machine Board	3036	1916	259	174	275	203	2827	4.5
Construction Paper & Board	425362	92836	33962	7246	37791	8514	382614	-8.6

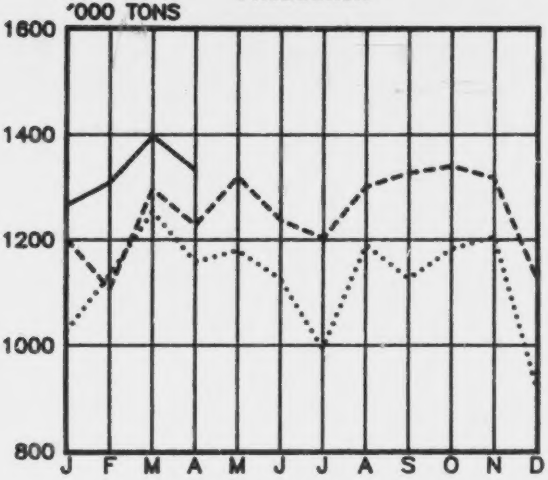
EXPORTS TO CANADA

Pulpwood, Roundwood (in cords of 128 cubic feet)	68965	4381	2674	150	3857	184	40260	-8.7
Pulpwood Chips	38246	2026	1703	80	2494	125	19840	8.2
Wood Pulp, Total	133633	55369	12315	5632	13143	5986	165468	15.2
Cotton Pulp & Other Pulp	9567	5287	935	580	764	504	11840	61.1
Waste Paper	346809	39478	24879	3050	29117	3363	314636	8.3
Paper, Board & Products, Total	659229	471256	61454	42729	72274	47394	768089	16.5
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	448117	306687	43101	28561	51833	31920	538804	18.2
Paper, Paperboard & Products	628109	459325	59545	41819	69621	46123	741576	18.3
Paper & Paperboard, Only	416898	294756	41192	28650	49279	30648	512292	20.9
Paper, Total	230771	210626	25855	21463	29846	22322	307312	28.5
Newsprint	4312	3805	410	294	845	508	6417	67.6
Printing, Writing & Rel. Pap.	125110	101541	11366	10165	12282	11277	143144	7.8
Pack. & Ind. Conv. Paper	34403	20921	3582	2320	5479	2835	46586	88.9
Special Industrial Paper	63380	81389	10168	8433	10852	7432	107883	48.4
Tissue	3556	2869	329	252	290	269	3281	1.4
Paperboard, Total	186226	84131	15337	7187	19433	8327	204879	10.0
Convtd Paper&Paperbd Products	211112	164568	18353	13169	20342	15474	229285	12.8
Wet Machine Board	5289	2976	260	198	702	380	4633	-34.1
Construction Pap & Bd. E	25831	8855	1648	712	1951	891	21879	-13.9

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

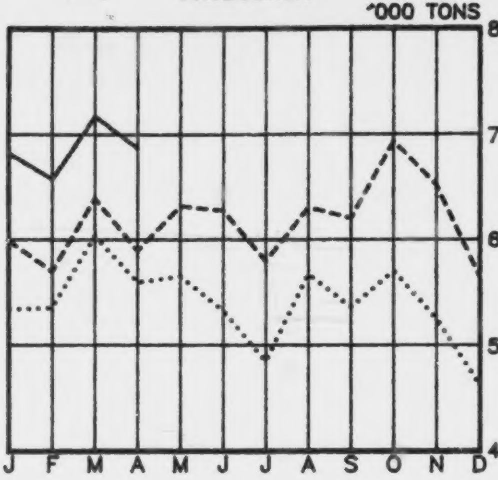
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



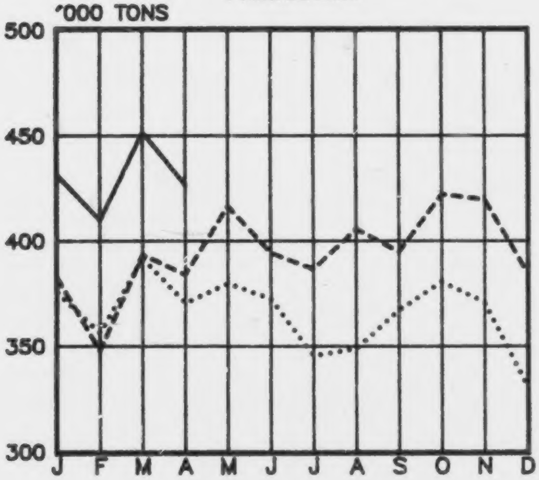
RECYCLED PAPERBOARD

PRODUCTION



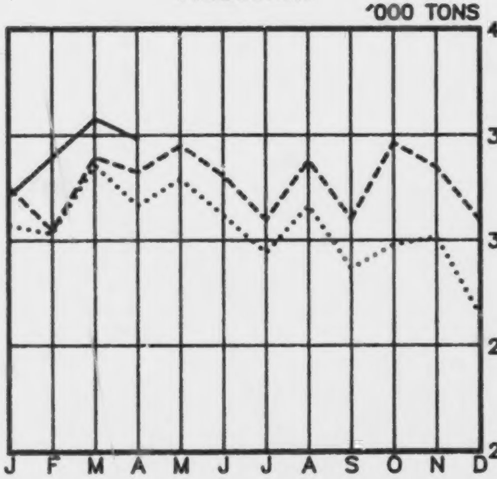
SEMICHEMICAL PAPERBOARD

PRODUCTION



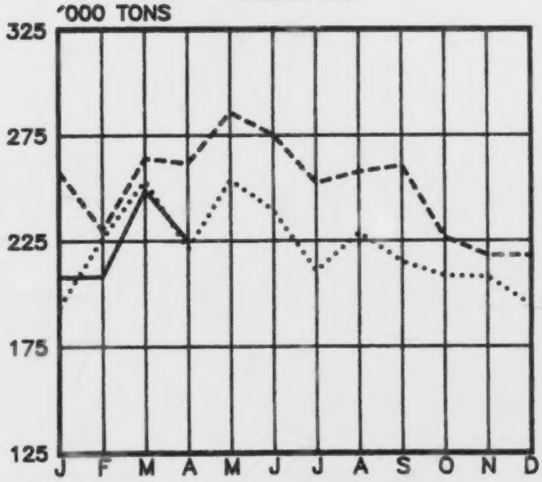
SOLID BLEACHED PAPERBOARD

PRODUCTION



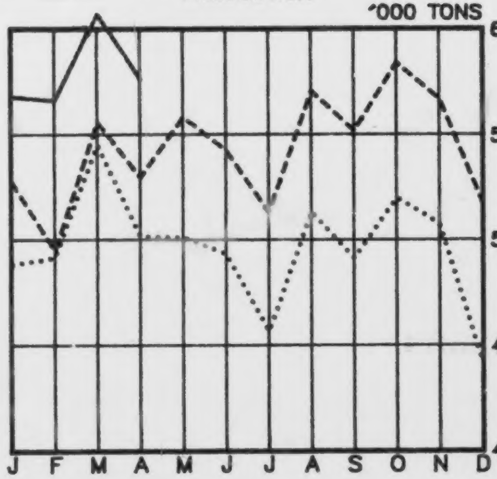
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1982 ········ 1983 - - - - - 1984 ———

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1983 Tons	$000	FEB. 1984 Tons	$000	MARCH 1984 Tons	$000	(1) Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulpwood Roundwood (cords)	155124	7471	12973	598	17448	849	167812	88.1
Pulpwood Chips	1991453	49104	271554	5794	336057	7040	3029872	52.7
Total All Imports	13248280	5526141	1288582	557332	1214832	541541	14960132	25.7
Wood Pulp Total	4093436	1472478	420082	158471	340982	132233	4394232	20.4
Waste Paper	100410	10537	9271	921	8804	813	104224	62.3
Other Fibrous Materials	68003	24272	6233	2151	5487	2226	66599	-9.6
Paper Board & Products Total	8986431	4018855	852996	385780	859559	406268	10385078	28.1
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	8834560	3582282	836179	352379	843672	365275	10202255	27.6
Paper Pbd & Prds ex Cnst&WMB	8509180	3911591	815179	387482	816765	395731	9967022	30.2
Paper & Paperboard Only	8357309	3475028	798362	344071	800879	354737	9774200	29.8
Paper Total	8189491	3428868	773928	337594	777328	348029	9492217	28.5
Newsprint	6919348	2757524	621259	251553	590980	242475	7501180	17.4
Printing & Writing	1151011	587426	137325	75818	172098	95641	1813386	102.8
Uncoated Groundwood	732237	331017	70182	34021	85055	41072	812916	55.9
Uncoated Book	154147	88632	21777	13403	27999	17815	293685	98.1
Coated Print.& Impres. Pap	182441	101289	20701	13788	28280	18539	283402	172.6
Bristols	471	557	74	83	32	34	862	70.0
Writing and Similar Paper	81458	46718	19663	11030	26377	14140	256614	546.8
Thin (except Cigarette)	20258	19213	4949	3493	4355	4043	58097	353.5
Total Pkg & Other Paper	107515	75694	14167	9430	12528	8727	162448	64.2
Unbleached Kraft Paper	42013	17454	6720	2698	3815	1905	60024	60.9
Other Pkg. & Indust. Paper	65503	58240	7446	6732	8714	6822	102422	66.3
Tissue	11617	8225	1177	783	1722	1186	15205	146.2
Paperboard, Total	167818	46160	24434	6477	23550	6708	281882	94.6
Test or Containerboard	48119	13042	7152	2017	7243	2187	81342	114.2
Semi-Chemical Corrugating	69564	14509	11753	2666	10350	2530	129499	115.0
Other Paperboard	50136	18609	5528	1795	5958	1991	71141	52.2
Convtd Paper&Paperbd Products	151872	436563	16817	43411	15887	40884	192822	59.6
Paper Products, Total	124816	373966	14740	38736	13667	35996	166849	68.0
Paperboard Products, Total	27055	62597	2078	4676	2220	4888	25974	20.7
Wet machine Board	3584	2422	354	243	316	235	3720	18.9
Construction Paper & Board	473667	104842	37463	8065	42477	10303	424338	-7.6
Notes								
Other: No Weight Avail. ($000)		148251		14355		15890	186028	55.3
Total Imports Incl. Other($000)		5674392		571687		557432	6715207	34.5

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	68497	4405	2898	165	3857	194	41556	-5.7
Pulpwood Chips	2554176	171269	133410	8028	204631	13355	2274104	-2.8
Total All Exports	10888949	4221511	888451	350249	1057383	407105	11285684	11.2
Wood Pulp, Total	3643963	1362022	317285	120806	373636	143124	3301976	13.6
Cotton Pulp and Other Pulp	102863	69805	9455	4546	4319	3320	92248	-6.5
Waste and Old Paper	2573716	308915	230894	28554	277824	32194	3098180	28.8
Paper, Board & Products, Total	4568407	2480769	330817	195542	401584	228468	4285280	-0.5
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	3984277	1717768	277543	131534	347314	160392	3664176	-2.7
Paper, Pbd & Prod ex Cnst&WMB	4501039	2448779	324262	191968	392971	223012	4209541	-0.8
Paper & Paperboard, Only	3916810	1685778	270987	127960	338701	154936	3578436	-3.2
Paper, Total	773414	599370	62721	49740	70340	54046	782646	0.7
Newsprint	284870	127119	21504	9492	24663	10832	278770	9.8
Printing & Writing	201798	198304	17246	17907	18804	20384	215278	2.3
Uncoated Groundwood	37269	33300	2082	1824	2423	2512	25883	-36.8
Clay Coated Paper	79182	60033	8235	6590	8479	7101	100684	25.4
Uncoated Free Sheet	59125	71882	5451	7341	6298	8400	68791	10.2
Other Printing & Writing	26202	33310	1479	2053	1604	2371	19910	-25.4
Total Pkg. & Other Paper	260865	255086	22852	20848	25181	20822	272255	-8.0
Unbleached Kraft	116170	43227	7978	3041	9221	3828	103276	-26.7
Other Pkg. & Indust. Paper	144695	211858	14875	17907	15960	17084	168978	9.1
Tissue	15881	18861	1120	1383	1691	1908	15343	-8.2
Paperboard, Total	3143496	1086408	208266	78220	268362	100890	2785790	-4.2
Solid Wood Pulp	2993868	1016184	199667	74426	254323	93304	2661147	-4.2
Total Linerboard	2254538	575862	141858	39893	185757	53345	1931167	-2.4
Bleached Kraft Linerboard	160253	64914	17050	6562	10278	4841	170282	64.0
Unbleached Kraft Linerbd	2094285	510948	124808	33430	175479	48505	1760876	-6.1
Other Unbleached Kraft	107141	51822	5280	2979	9764	4750	106016	-20.9
Other Bleached Kraft	558431	371357	50735	30985	53239	33705	589153	5.6
Semi-Chemical Corrugating	73758	17144	1794	470	5564	1504	34810	-67.5
Recycled Paperboard	149628	70224	8599	3794	14038	7586	134843	-3.5
Convtd Paper&Paperbd Products	584129	763001	53274	64008	54270	68076	631105	15.0
Paper Products, Total	311722	535596	27869	41160	29807	47005	333696	10.9
Paperboard Products, Total	272408	227406	25405	22847	24463	21071	297408	20.1
Wet Machine Board	11622	5420	938	404	1197	674	11863	-22.4
Construction Paper & Board E	55746	26570	5618	3171	7416	4783	73877	30.6
Notes								
Other: No Weight Avail. ($000)		7965		559		856	7139	10.7
Total Exports Incl. Other($000)		4229475		350808		407861	4399864	11.2

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES

1967 = 100

	1982	1983	JAN.	FEB.	MARCH	APRIL	Annual Rate Y-T-D 83	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	273.2	271.4	280.0	283.3	286.4	290.1	285.0	6.0
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	275.9	273.3	281.2	284.2	287.1	290.6	285.8	5.3
Total Wood Pulp	379.1	347.1	364.4	371.5	376.0	392.5	376.1	9.2
Total Paper	286.3	282.3	294.3	296.6	299.2	300.6	297.7	6.8
Total Paper, exc. Newsprint	278.3	277.0	295.1	296.9	298.6	299.7	297.6	9.1
Newsprint	315.8	303.0	309.6	309.6	316.0	316.0	312.8	4.6
Total Paperboard	254.9	250.8	262.2	269.3	273.6	275.4	270.1	10.1
Total Paper and Paperboard #	276.5	272.4	284.2	288.0	291.2	292.7	289.0	7.7
Converted Products	264.4	265.4	269.4	271.6	274.1	277.7	273.2	3.2
Waste Paper	121.1	158.6	211.5	229.3	242.9	258.8	235.6	103.1
All Commodities	299.3	303.1	308.1	308.8	311.1	311.4	309.8	3.1
Industrial Commodities	312.3	315.7	319.2	320.4	321.9	322.5	321.0	2.4

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

reported by the Fibre Box Association for the January-April period. The latest report noted that shipments of fibre boxes in April 1984 was the highest April total on record. The seasonally adjusted rate of shipments in the first four months of 1984 was at the rate of 267 billion square feet. (For 1983 as a whole, fibre box shipments totalled a record-high 252 billion square feet.) The Association also noted that inventories of containerboard at paperboard mills and fibre box plants were equivalent to 6.3 weeks of supply at current consumption rates, and that the tonnage level of inventories as of the end of April was only 0.4% above its year-ago level.

Although total production of semichemical paperboard in the first four months of 1984 showed a gain close to that of total containerboard for domestic use -- actually 14% -- production of unbleached kraft linerboard gained 9.8%.

Continued on Page 11

Continued from Page 10

The smaller increase in total unbleached kraft linerboard production reflected an 11% decline in production for export in this period. However, most of this loss was concentrated in the first two months of 1984, when exports averaged 153,000 tons per month. In the March-April 1984 period production for export averaged 180,000 tons per month. Although encouraging, the level was still below the 190,000 tons per month average exported during 1983.

Whereas the performance of the containerboard grades continued a long-term pattern of strong tonnage demand, the strength in the production of the boxboard grades represents a sharp break from the past. Recycled paperboard production, in particular, has been a standout. Production of these grades in the first four months of 1984 was 14.4% above its comparable 1983 level, running at a rate in excess of 8 million tons per year. During 1983 production had also shown some strength; the 7.4 million-ton total was 5.7% above its 1981 level and 14% above the 1982 recession low but just about matching average production in the 1976-1979 period. The 1984 rate, however, represents a new high for this grade; if the current rate is maintained for the rest of this year, it would mark the first time the total exceeded 8 million tons.

In 1983 major gains were concentrated in the non-packaging grades, particularly gypsum wallboard facings and panelboard, although tube, can and drum stock production from recycled mills was also strong. So far this year, these grades continue to rise rapidly, with gypsum wallboard facings up 53% from their four-month 1983 total and panelboard up 39%, reflecting the increases in both homebuilding and automobile production. Tube, can and drum stock rose 14%.

What is unusual about the 1984 performance is the gain in folding boxboard production -- up 10% so far this year -- and set-up boxboard - up 18%. Last year, production of folding boxboard rose 7.5% from its 1982 low. So far this year production of folding boxboard is running at 4.4 million tons per year, with the gains in the clay coated grades being shared roughly equally between the solid bleached board and recycled grades.

Fibrous Materials

Production of market wood pulp in the first four months of 1984 rose 9.5% above its year-earlier level to a record-high rate of 6.9 million tons per year; this reflected the growing strength in demand for paper and paperboard in the United States. Shipments of paper grade chemical market pulp to the domestic markets was particularly strong, rising 20%;

Continued on Page 12

Continued from Page 11

export shipments gained 5%. Total wood pulp production was also at record-high levels. At 56 million tons per year, production was 8.6% above its year-earlier level.

Consumption of waste paper at paper and paperboard mills also maintained its position, with the January-March 1984 rate of 15.8 million tons per year 10.7% over its year-ago level. In addition waste paper exports, at 3.1 million tons per year, were 30% above their year-earlier level in the first three months of 1984.

Capital Expenditures

A recent report by the McGraw Hill Economics Department gave further weight to the Department of Commerce's forecast of a rising trend of expenditures on new plant and equipment by paper and allied products companies. McGraw Hill reported that, on the basis of their survey, paper and allied products companies would spend $6.7 billion for such products in 1984 compared to $6.2 billion spent in 1983. McGraw Hill further reported that these expenditures are expected to rise to $7.2 billion in 1985 and $7.9 billion in 1986. The survey further noted that these companies would spend about 8% of the total for new plant and 92% for equipment.

In another report, McGraw Hill survey showed that paper and allied products companies would spend $324 million in pollution abatement equipment in 1984, compared to $416 million in 1983. However, they noted that these companies would increase such expenditures to $381 million in 1985.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

MAY 25, 1984

PRODUCTION (000 TONS)

	April 1984	March 1984	April 1983	Jan -April 1984	- 1983	% Change 84/83
PAPER GRADES	P	R				
Newsprint	465	478	401	1855	1710	8.5
Printing & Writing	1508	1622	1426	6179	5577	10.8
Uncoated Groundwood (s)	127	140	129	531	481	10.4
Coated Paper (s)	507	531	444	2057	1763	16.7
Uncoated Free Sheet Paper (s)	744	813	734	3094	2877	7.5
Thin Paper (s)	29	32	28	116	113	2.9
Cotton Fiber Paper (s)	11	13	11	48	43	10.7
Bleached Bristols (s)	90	93	81	333	301	10.8
Tissue Paper	405	426	400	1633	1568	4.1
Total Pkg & Other Paper	497	527	439	1999	1819	9.9
Unbleached Kraft Packaging & Indl. Converting (s)	334	352	291	1330	1245	6.9
Other Paper *	163	175	148	669	574	16.5
TOTAL PAPER	2875	3053	2665	11665	10674	9.3
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1427	1502	1325	5693	5191	9.7
Unbleached Kraft Linerboard	1332	1397	1228	5303	4830	9.8
Other Unbl. Kraft Paperboard	95	106	97	389	361	7.8
Semichemical Paperboard	427	451	384	1719	1507	14.1
Bleached Paperboard	348	358	332	1367	1301	5.0
Recycled Paperboard	687	717	590	2743	2397	14.4
TOTAL PAPERBOARD	2888	3029	2631	11521	10397	10.8
TOTAL PAPER AND PAPERBOARD	5763	6082	5296	23187	21071	10.0

WOOD PULP (ALL GRADES)	March 1984	Feb. 1984	March 1983	Jan -March 1984	- 1983	% Change 84/83
Dissolving & Special Alpha	106	106	112	309	313	-1.2
Bleached Sulfite	125	105	113	338	324	4.4
Unbleached Sulfite	23	24	24	72	83	-13.5
Bleached & Semi-Bl. Sulfate	1946	1822	1861	5549	5176	7.2
Unbleached Sulfate	1828	1700	1698	5215	4750	9.8
Semichemical	365	328	321	1045	935	11.8
Groundwood and Thermomechanical	466	454	435	1383	1262	9.6
TOTAL PULP DIVISION DATA	4858	4539	4563	13910	12842	8.3

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

May 30, 1984

	Full Year		INDUSTRY DATA			Ann. Rate Year – To – Date	% From Same Pd. Last Yr.
			1984				
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1982	1983	February	March	April		
Total Production (API).......| excluding |...	59488	65113	5661	6082	5763	69560	10.0
Total Seasonally Adjusted....|construction|...			5736	5639	5657	68334	9.2
Imports (including Products).| and wet |..E	7603	8509	815	817	794	9858	27.8
Exports (including Products).| machine |..E	4187	4501	324	393	367	4257	-1.9
Apparent Consumption.........| grades |...	62904a	69121b	6227	6063	6094	73765c	+12.1
Paper Production % Tonnage Capacity...........	87.8s	93.5s	98.2	98.2	95.9	96.6sh	-
Paperboard Production % Tonnage Capacity......	82.1s	89.7s	97.4	97.4	96.8	95.7s	-
			January	February	March		
IMPORTS.....|Including Construction and |.....	8024	8986	886	853	860	10396	28.2
EXPORTS.....| WMB Grades (excl. HPB) |.....	4246	4568	341	331	402	4296	0.0
MARKET WOOD PULP PRODUCTION - Tons (000)........	5732	6478	537	566	592	6779	10.0
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	48334	52537	4513	4539	4858	55642	8.3
WOOD PULP IMPORTS - TONS (000)..................	3656	4093	337	420	341	4394	20.4
WOOD PULP EXPORTS - TONS (000)..................	3395	3644	260	317	374	3802	13.6
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			January	February	March		
Wood Pulp............|consumption for|.....	47767	50961	4367	4525	4649	54165	9.6
Waste Paper..........|construction & |.....	13565	14539	1292	1276	1389	15830	10.7
TOTAL.........| WMB grades |.....	61332	65500	5659	5801	6038	69995	9.9
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79039	85442	7185	7295	14480	57920	5.2
EMPLOYMENT (000)			February	March	April		
Paper and Allied Products..........Total......	662.0	658.7	668.4	670.7	671.4	669.4	3.1
Pulp, Paper and Board Mills........Total.....E	257.8	253.7	255.9	256.5	256.7	256.0	1.8
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	9.32	9.93	10.21	10.25	10.30	10.25	5.9
Pulp, Paper Mills...........................E	10.88	11.71	12.13	12.14	12.19	12.14	7.2
Paperboard Mills............................E	11.13	12.11	12.62	12.69	12.74	12.65	8.0
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q4	1984 Q1	1984 Q2		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.97	6.18	6.24	7.07	7.09	7.13y	15.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			February	March	April		
|IN PULP, PAPER |...Production Workers..........	109.9	121.9	125.5	123.4	122.6	124.4	3.3
|AND BOARD MILLS|...All Employees..............	108.3	120.4	125.3	123.1	122.4	124.1	5.0
PAPER AND ALLIED PRODUCTS (Million $)			January	February	March		
Industry Shipments (Dept. of Commerce)*.......	78992	85662	7743	7797	7737	93108	15.9
Pulp, Paper and Paperboard*.................	33523	36346	3347	3398	3278	40492	18.9
Inventories (End of Period) - Total Industry*.	8607	8729	8829	8898	8919	8919	6.6
Pulp, Paper and Paperboard*.................	3365	3263	3257	3293	3291	3291	0.4
			1983 Q3	1983 Q4	1984 Q1		
Sales (Corporations Only, FTC)...............	60293	66100	16797	17279	N.A.	N.A.	N.A.
Earnings (Corporations Only, FTC)............	1460	2337	678	675	N.A.	N.A.	N.A.
Depreciation (Corporations Only, FTC)...	2379	2645	688	655	N.A.	N.A.	N.A.
Net Worth (Corporations Only, FTC)...........	26705	27509	27381	27509	N.A.	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1967=100			February	March	April		
Pulp, Paper & Products, ex. Building Grades...	273.2	271.4	283.3	286.4	290.1	285.0	6.0
Wood Pulp.....................................	379.1	347.1	371.5	376.0	392.5	376.1	9.2
Waste Paper...................................	121.1	158.6	229.3	242.9	258.8	Not Available	
Paper...	286.3	282.3	296.8	299.2	300.6	297.7	6.8
Paperboard....................................	254.9	250.8	269.3	273.6	275.4	270.1	10.1
PAPER DEMAND (INDEXED: 1967=100)			February	March	April		
Total Paper Production *.....................	145.4	157.4	164.5	162.1	164.2	164.4	8.4
Paper New Supply *...........................	135.1	147.6	157.2	154.9	155.5	157.2	12.0
Total End - Use Index *...................	149.5	157.8	163.1	163.7	165.5	162.4	7.6
Production of Nondurable Goods *...(19%)..	156.1	168.0	175.6	177.3	178.5	174.6	9.0
Disposable Income (Constant $) *...(23%)..	157.8	163.4	172.0	172.0	172.3	171.7	7.0
Total Printing and Publishing *...(58%)..	144.0	152.3	155.4	156.0	158.6	154.8	7.3
Trend Factor	----------	----------	----------	Not Available	----------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *................	127.6	141.2	150.6	147.8	146.7	148.6	10.0
Production for Domestic Use	122.7	135.5	148.0	142.8	143.0	145.1	12.4
Total End - Use Index *..................	139.5	148.9	159.4	160.0	161.9	159.9	13.2
Production of Consumer Goods *...(60.49%)	142.7	151.8	159.6	159.9	161.6	160.2	10.6
Production of Equipment *...(6.62%)	139.8	140.8	156.3	157.2	159.5	157.0	16.7
Production of Materials *...(32.89%)	133.7	145.2	159.6	160.6	162.9	159.9	17.5
Trend Factor	----------	----------	----------	Not Available	----------	----------	----------
NEWSPRINT MARKETS			January	February	March		
Consumption by Publishers - Tons (000)........	11141	11671	934	969	1035	11752	9.1
Newspaper Pub. and Printing Empl. Total(000)..	417.5	421.6	428.2	429.5	429.3	429.0	3.3
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	121617	30895	8933	11174	12628	130941	6.0
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	22776	26532	2423	2405	2653	29924	19.4
Inventories (End of Period)	1885	2341	2371	2322	2425	2425	22.1
FIBRE BOX DATA (Fibre Box Association)			February	March	April		
Fibre Box Shipments (Million square Feet)......	235185	252539	21828	23651	21960	267951	10.6
Container'bd Inventory at Mill & Plant(000Tons)	2584	2437	2466	2477	2506	2506	0.4
RETAIL TRADE (Million $)							
Total Retail Sales *.........................	1074467	1171915	105744	103377	106382	1266315	13.4
Nondurable Goods Stores Sales *..............	753568	793398	68779	68432	69632	828954	7.7
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	138.6	147.6	160.1	160.9	163.1	160.7	15.1
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	299.3	303.1	308.8	311.1	311.4	309.9	3.1
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	289.1	298.4	306.6	307.3	308.8	307.0	4.5
			January	February	March		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	344.8	387.9	386.4	399.2	402.5	402.5	17.5
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1983 Q3	1983 Q4	1984 Q1		
G.N.P. or Expenditure - Current $.............	3073.0	3310.5	3362.2	3436.2	3541.6	3541.6	11.7
G.N.P. or Expenditure - 1972 $................	1485.4	1535.3	1553.4	1572.5	1606.0	1606.0	7.8

lb/capita
Pap&Papbd Othr Totl Popul(mil)
.a - 543 + 15 = 558 232.0
.b - 589 + 18 = 607 234.2
.c - 627 + 18 = 645 235.2
.E - Last month estimated by API
.e - estimated by API

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

6/84
A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 62 - No. 6 JUNE, 1984

Output Continues High

Production of paper and paperboard continued at the 68 million tons per year rate in May 1984 and, according to the available weekly data, in June as well. Based on preliminary data, first half of 1984 production is estimated at about 68.2 million tons per year, roughly 9% above the relatively high rate reached in the first half of 1983. When compared with total production in 1983, the first half 1984 annual rate was only about 5% above the 1983 total; the escalating trend of production during the second half of 1984 accounts for the more modest comparison.

The year-to-year gains in production continued to be well distributed throughout the grade structure. Total paper production in the first half of 1984, at an estimated seasonally adjusted rate of 34.3 million tons per year, was about 7.5% over its comparable year-earlier figure and 4% above the total for 1983. The estimated seasonally adjusted annual rate of paperboard production for the first half of 1984 is 34.0 million tons, about 9% above the comparable 1983 rate but 5.5% above the average for all of 1983. Because of the extra leap year day in 1984, the year-to-year comparisons of the actual production data are about 0.5% higher than comparisons of the seasonally adjusted data.

The trends within the paper and paperboard grade structure generally continued along the same paths they have followed during the past three quarters. Among the paper grades, the largest gains continue in the printing papers and in other packaging and industrial papers--mostly specialty packaging and special industrial papers. As shown in the table on page 3, shipments of total printing papers in the first five months of 1984 were 10% above their year-ago total.

Newsprint production has picked up strongly, with the five-month total nearly 9% over its comparable 1983 total. Total newsprint consumption, which had traced a flat trend from the start of 1979 through the middle of 1983, is at a

Continued on Page 2

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Continued from Page 1

record rate of about 12.5 million tons per year and some 10% higher than its earlier level.

The production of the paperboard grades has also followed its recent trends. The major strengths continue in the non-packaging grades. As the data in the lower panel on page 3 show, production of "all other" paperboard for domestic use in the first five months of 1984 was 18% above its year-earlier level. This category does include some packaging grades, such as tube, can and drum stock, but the gains in those categories were only slightly above the 10% increase shown for all paperboard production.

The rate of containerboard production for domestic use in the first five months of 1984 was about 21 million tons per year, about 12% above the comparable year-ago rate and 10% above the average rate for 1983 as a whole. These increases are comparable with those shown in shipments of fibre boxes. The Fibre Box Association reported their May 1984 shipments at the highest total for that month, with the seasonally adjusted rate for the first five months of 1984 at a record-high 265 billion square feet per year.

Among the boxboard grades, production of folding boxboard continued to retain the strength evident earlier this year, with the five-month 1984 total 9.2% above its year-earlier level, with strength in both recycled and solid bleached board grades. Set-up boxboard also continued its unusual performance, showing a 18% gain. Production of the milk carton and food service grades however, did not quite match its year-ago total.

Total production of paperboard for export in the first five months of 1984, at a 2.7 million tons per year rate, was 13% below its year-ago rate. Most of the weakness this year occurred in the first two months. Exports of kraft linerboard in the first two months of 1984 were at a 1.8 million tons per year rate, while the average rate in the subsequent three months was nearly 2.2 million tons per year, only 2% below the average rate for all of 1983. Exports of the solid bleached sulphate paperboard grades have been following a fairly flat trend, averaging about 12% less than their year-ago rate.

Demand for Paper and Paperboard

The high level of production evident since the Fall of 1983, together with a rising trend in imports, has brought new

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

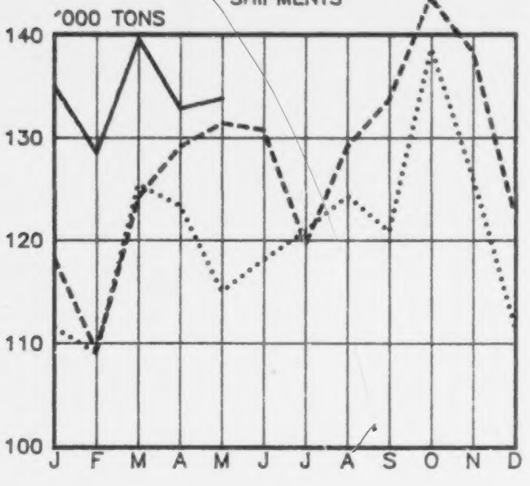
	YEAR		FEB. 1984	MARCH 1984	APRIL 1984	MAY 1984	Annual Rate Y-T-D 1984	% Change From same Period Last Year
	1982	1983						
PAPER					R	P		
Newsprint - Production	5042	5187	452	478	465	481	5604	8.6
- Shipments	4988	5153	454	500	484	497	5740	15.4
Printing & Writing	15611R	17387R	1518	1622	1528	1565	18638	10.4
Groundwood Paper - Shipments	1471R	1531R	128	140	133	134	1608	9.4
- New Orders	1481	1581	149	141	139	117	1654	12.3
- Unfilled Orders	92	159	185	187	194	172	172	66.9
Coated Paper - Shipments	4974R	5696	512	531	510	532	6223	16.5
- New Orders	4841	5896	527	552	516	476	6164	10.6
- Unfilled Orders	322	546	540	557	568	512	512	16.4
Unctd Free Sheet - Shipments	7855R	8767R	761R	814R	756	773	9313	7.2
- New Orders	7827	9077	726	819	697	746	8948	-1.3
- Unfilled Orders	321	686	590	586	522	508	508	-1.1
Thin Paper - Shipments	329R	328	28	32	29	29	349	2.9
Cotton Fiber Paper - Shipments	120R	131R	12	13	13	11	145	9.6
Bleached Bristols - Production	862R	934R	77	93	87	86	999	9.2
Tissue Paper - Production	4438	4790R	393	421	402	412	4884	2.7
Total Packaging & Other Paper	5300	5618R	488	527	497	502	6004	9.3
Unbl. Kraft Paper - Shipments	3688	3792	322	352	334	330	3984	7.2
Other Paper - Production	1612	1826R	166	175	163	172	2020	13.7
TOTAL PAPER-Production-Unadj. *	30390	32962	2851	3049	2891	2959	35130	8.8
-Production-S.A. *			2871	2826	2883	2856	34431	8.0
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	22589	24779	2152	2312	2201	2327	26652	9.1
Unbl. Kraft Linerboard (1)	13494	15001	1309	1397	1344	1429	16186	9.7
Production for Export	1931	2281	152	190	181	187	2073	-10.9
Other Unbl. Kraft Paperboard	1040	1121	95	106	84	113	1178	6.2
Semichemical Paperboard	4389	4730	410	451	426	435	5169	12.0
Production for Export	185	193	14	14	13	12	156	-26.7
Solid Bleached Paperboard	3665	3926	340	358	348	350	4119	4.2
Production for Export	525	514	42	43	42	36	487	-12.3
Recycled Paperboard	6476	7398	657	717	686	693	8244	13.4
Production for Export	13	24	1	1	1	1	14	-41.2
TOTAL PAPERBOARD-Prod.-Unadj. *	29065	32177	2810	3029	2887	3019	34896	10.1
- Containerboard Prod.(Dom. Use)	17508	19173	1710	1810	1753	1818	21082	12.4
- Boxboard Prod.(Dom. Use) (2)	5150	5551	490	531	504	503	6030	8.4
- All Other P'bd Prod.(D.U.) (2)	3753	4397	399	439	397	463	5044	18.3
- Total Paperbd Prod. for Export	2654	3012	209	248	236	236	2730	-12.5
TOTAL PAPERBOARD PROD.- S.A. *			2864	2810	2790	2846	33952	9.4
TOTAL PAPER AND PAPERBOARD Production - actual *	59456	65139	5661	6078	5778	5979	70026	9.4
Production - S.A. *			5735	5636	5672	5702	68383	8.7

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* NOTE: Year 1984 contains one more day than year 1983.

P Preliminary
R Revised
S.A. Seasonally Adjusted

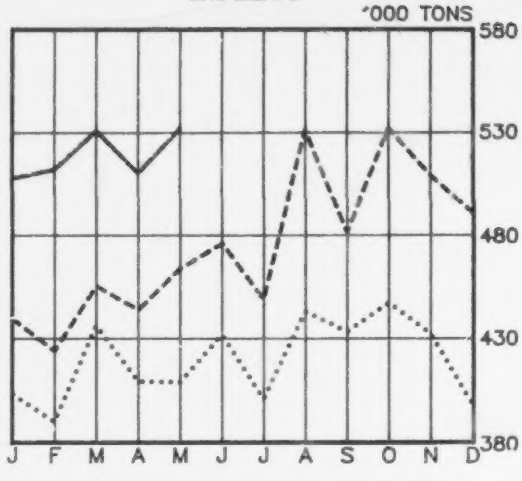
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



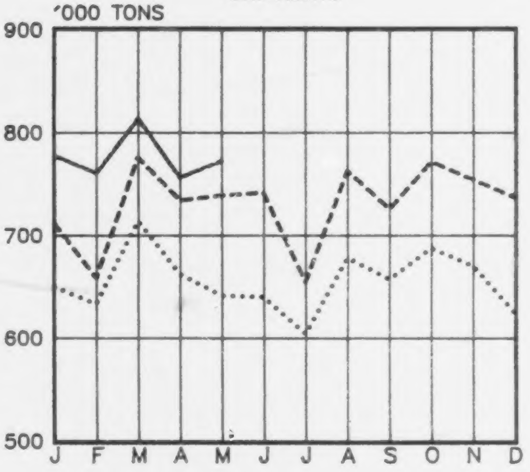
COATED PAPER

SHIPMENTS



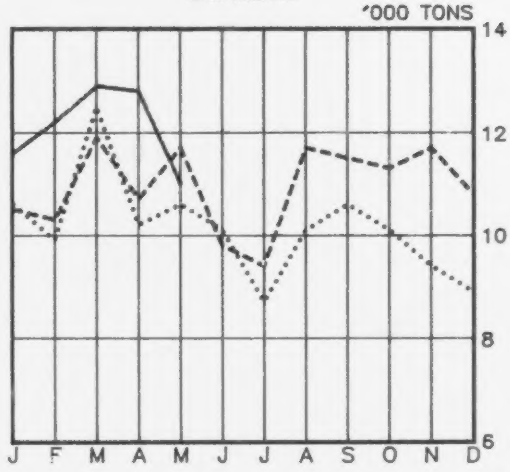
UNCOATED FREE SHEET PAPERS

SHIPMENTS



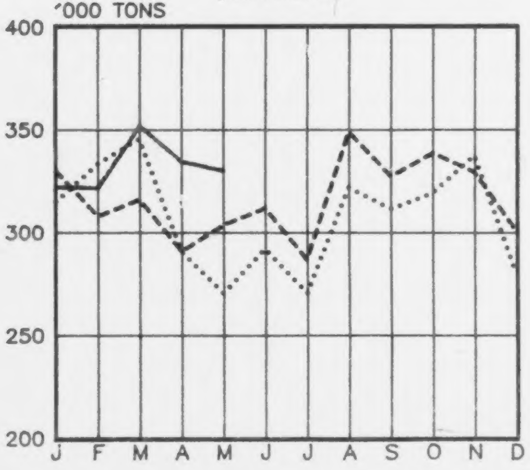
COTTON FIBER PAPER

SHIPMENTS



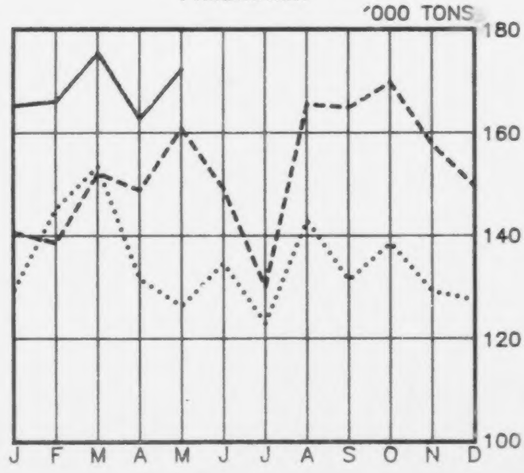
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1982 ········ 1983 – – – – 1984 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR							
	1982	1983	JAN. 1984	FEB. 1984	MARCH 1984	APRIL 1984	Annual Rate Y-T-D 1984	% Change from same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	48334	52537	4513	4539	4858	4722	55897	8.6
- Imports	3656	4093	337	420	341	338	4308	18.4
- Exports	3395	3644	260	317	374	249	3599	1.4
- New Supply	49595	52986	4591	4642	4825	4810	56606	8.8
Dissolving Pulp - Production	1092	1261	98	106	106	117	1277	4.3
- Imports	186	192	15	12	20	8	164	-21.6
- Exports	631	647	52	38	74	53	651	-4.1
- New Supply	647	806	61	79	52	71	788	4.7
Paper Grades - Production	39478	42358	3601	3651	3921	3783	44867	8.0
Chemical Pulp - Imports	3302	3706	304	380	301	309	3880	18.7
- Exports	2736	2958	205	278	295	192	2910	3.0
- New Supply	40044	43106	3698	3754	3926	3900	45838	9.2
Groundwood and - Production	5064	5067	463	454	466	472	5564	11.6
Thermo-Mech. - Imports	167	195	19	28	20	21	265	64.0
- Exports	27	40	3	1	4	4	38	-10.9
- New Supply	5204	5222	479	481	482	489	5791	13.5
Semi-Chemical - Production	3699	3851	352	328	365	351	4188	11.8
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	3699	3851	352	328	365	351	4188	11.8
MARKET WOOD PULP								
Total Market - Production	5732	6478	537	566	592	593	6862	9.5
Wood Pulp - Imports	2443	2945	231	274	283	269	3170	24.4
- Exports	3143	3421	259	317	332	281	3565	4.9
- New Supply	5031	6002	509	523	544	580	6467	19.4
Dissolving Pulp - Production	1089	1260	97	106	106	117	1275	4.0
- Imports	194	210	20	13	21	12	200	-1.3
- Exports	675	698	47	52	83	61	728	4.7
- New Supply	608	772	70	67	44	68	746	2.0
Paper Grades - Production	4643	5206	439	459	485	475	5575	10.9
Chemical Pulp - Imports	2202	2698	204	254	259	252	2907	25.1
- Exports	2468	2723	211	265	249	220	2836	5.0
- New Supply	4377	5181	432	448	495	507	5646	21.4
Groundwood Pulp - Production	1	12	1	1	1	1	12	0.0
and All Other - Imports	46	30	6	7	3	13	88	296.3
- Exports	0	0	0	0	0	0	0	0.0
- New Supply	47	49	7	8	4	14	100	190.3

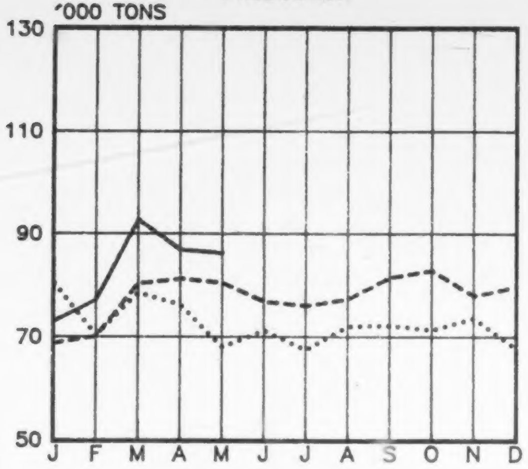
SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

FIBROUS RAW MATERIALS
(Thousands of tons)

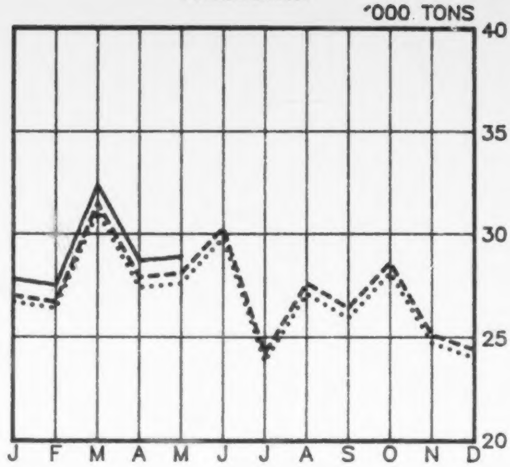
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	61332	65500	5659	5801	6038	5846	70035	9.9
Total Wood Pulp	47767	50961	4367	4525	4649	4521	54188	9.5
Waste Paper	13565	14539	1292	1276	1389	1325	15847	11.1
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	177	170	151	142	154	157	157	-21.0
Market Pulp at Pulp Mills	437	384	394	351	324	341	341	-20.5
Mkt Pulp at Ppr. & Bd. Mills *	429	522	564	546	604	648	648	43.7
Waste Paper at Paper &Bd. Mills	1022	920	908	896	896	886	886	5.2
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	37	26	28	23	21	22	22	-29.0

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.
* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

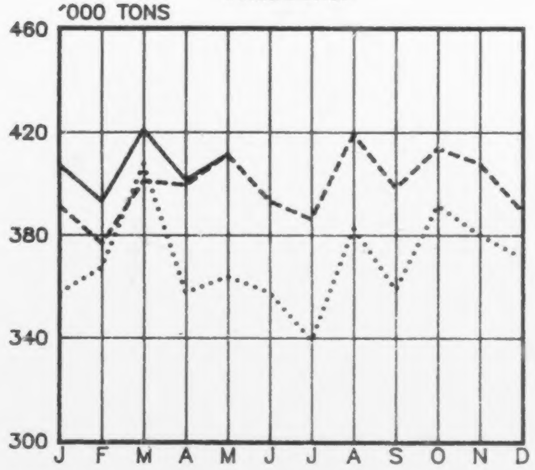
BLEACHED BRISTOLS
PRODUCTION



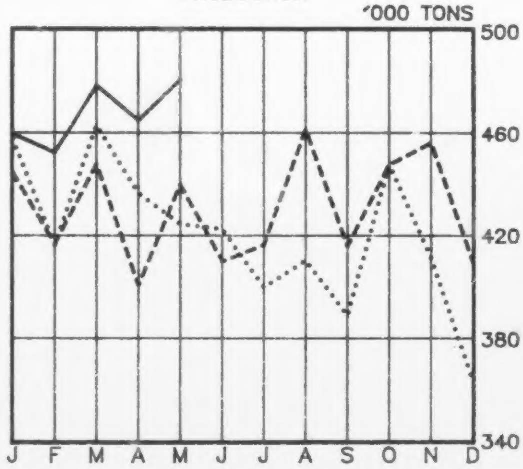
THIN PAPER
PRODUCTION



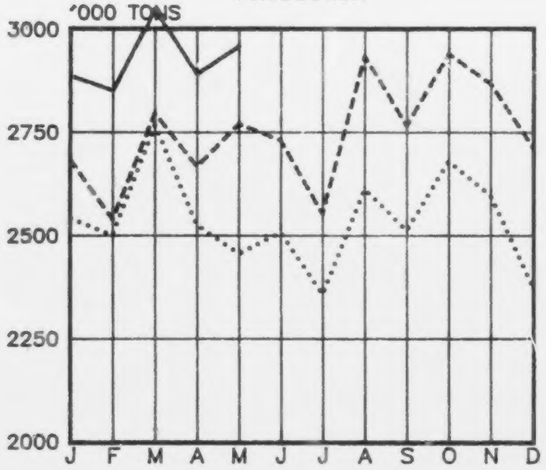
TISSUE PAPER
PRODUCTION



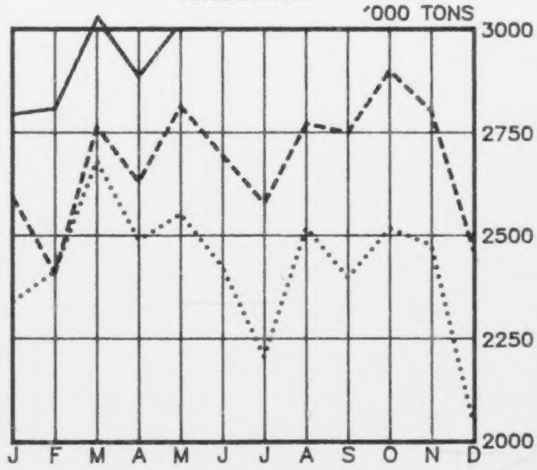
NEWSPRINT
PRODUCTION



TOTAL PAPER
PRODUCTION



TOTAL PAPERBOARD
PRODUCTION



1982 .... 1983 ---- 1984 ——

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Foot) Cords)

		YEAR 1982	YEAR 1983	JAN. 1984	FEB. 1984	MARCH 1984	APRIL 1984	Annual Rate Y-T-D 1984	% Change from same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78519	84475	7044	7434	7619	7100	87591	7.1
	- Total Consumpt.	79039	85442	7185	7295	7660	7344	88452	4.2
	- Residues *	31152	32755	2554	2813	2876	2755	32994	3.9
	- Inventories	5426	5229	5168	5192	5157	4777	4777	-0.0
So. Atlantic	- Total Receipts	23769	25736	2094	2204	2243	1970	25533	1.5
	- Total Consumpt	23725	25847	2151	2238	2275	2020	26052	-0.4
	- Residues *	8273	7904	650	685	689	624	7944	3.2
	- Inventories	1165	1163	1101	1052	1017	900	900	0.9
Northeast	- Total Receipts	7283	7051	680	665	643	535	7568	11.3
	- Total Consumpt	7221	7274	678	642	673	693	8058	6.9
	- Residues *	1452	1199	106	114	113	127	1380	15.6
	- Inventories	652	577	587	621	611	459	459	-6.9
South Central	- Total Receipts	26510	29409	2305	2484	2625	2634	30144	7.2
	- Total Consumpt	27153	29152	2380	2483	2641	2539	30129	5.7
	- Residues *	8616	9218	703	757	762	761	8949	-0.2
	- Inventories	1346	1536	1495	1455	1350	1375	1375	5.3
North Central	- Total Receipts	5601	6265	621	688	633	439	7143	13.3
	- Total Consumpt	5706	6343	574	542	611	552	6837	7.6
	- Residues *	1517	1822	102	146	130	111	1467	-18.6
	- Inventories	925	851	906	987	1030	890	890	1.8
West	- Total Receipts	15356	16014	1344	1393	1475	1521	17199	11.5
	- Total Consumpt	15234	16826	1402	1390	1460	1540	17376	6.6
	- Residues *	11294	12612	993	1111	1182	1132	13254	9.8
	- Inventories	1338	1102	1079	1077	1149	1153	1153	-5.0

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1983 Tons	YEAR 1983 $000	MARCH 1984 Tons	MARCH 1984 $000	APRIL 1984 Tons	APRIL 1984 $000	Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	155124	7471	17448	849	8838	399	152448	87.9
Pulpwood Chips	1987168	48979	336034	7033	200269	4299	2872764	43.1
Wood Pulp, Total	3755201	1363975	319539	125515	302926	124939	3978645	15.7
Waste Fibrous Materials, Total	157732	26491	12898	2108	13002	2227	156100	23.2
Paper, Board & Products, Total	8274914	3372726	719817	305224	690529	298991	8792003	14.8
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	8221322	3274062	714224	294790	685101	288384	8726787	14.6
Paper Paperboard & Products	7846518	3277974	681752	296508	655393	290242	8397441	16.1
Paper & Paperboard, Only	7792924	3179310	676159	286074	649966	279635	8332225	16.0
Paper, Total	7633585	3139193	654096	279954	632005	274217	8082775	15.0
Newsprint	6845135	2732234	581886	239439	559922	234506	7210548	13.8
Printing, Writing & Rel. Pap.	695807	348512	61900	33965	62263	33757	749855	24.0
Pack. & Ind. Conv. Paper	79209	46889	8551	5075	8015	4626	104397	34.3
Special Industrial Paper	2732	4473	321	509	133	230	3026	19.2
Tissue Paper	10602	7085	1438	965	1672	1098	14949	85.3
Paperboard, Total	159339	40117	22062	6120	17961	5418	249449	60.8
Convtd Paper&Paperbd Products	53592	98664	5594	10434	5428	10607	65216	42.7
Wet Machine Board	3036	1916	275	203	184	120	2748	-7.8
Construction Paper & Board	425362	92836	37791	8514	34951	8629	391814	-8.4

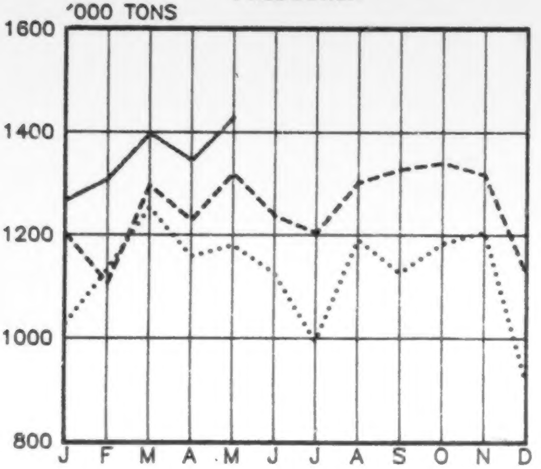
EXPORTS TO CANADA

	YEAR 1983 Tons	YEAR 1983 $000	MARCH 1984 Tons	MARCH 1984 $000	APRIL 1984 Tons	APRIL 1984 $000	Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	68965	4381	3857	194	5195	289	45780	1.9
Pulpwood Chips	38246	2026	2494	125	5850	458	32430	30.5
Wood Pulp, Total	133633	55369	13143	5996	16002	7130	172107	20.0
Cotton Pulp & Other Pulp	9567	5287	764	504	1047	623	12021	61.9
Waste Paper	346809	39478	29117	3363	23685	2739	307032	-2.7
Paper, Board & Products, Total	659229	471256	72274	47394	66982	44946	777014	20.6
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	448117	306687	51933	31920	49931	29839	553897	25.1
Paper, Paperboard & Products	628109	459325	69621	46123	63502	43664	746690	21.7
Paper & Paperboard, Only	416998	294756	49279	30649	46451	28557	523572	27.1
Paper, Total	230771	210626	29846	22322	24438	20519	303799	32.5
Newsprint	4312	3805	845	508	505	407	6326	61.7
Printing, Writing & Rel. Pap.	125110	101541	12282	11277	10009	8144	137385	7.0
Pack. & Ind. Conv. Paper	34403	20821	5479	2835	4217	2181	47589	81.5
Special Industrial Paper	63380	81389	10852	7432	9548	8518	108556	63.8
Tissue	3556	2969	290	269	160	270	2941	-24.5
Paperboard, Total	186226	84131	19433	8327	22013	8038	218774	20.3
Convtd Paper&Paperbd Products	211112	164568	20342	15474	17051	15106	223117	10.6
Wet Machine Board	5289	2976	702	380	325	233	4450	-35.8
Construction Pap & Bd. E	25831	8955	1951	891	3155	1049	25874	8.4

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

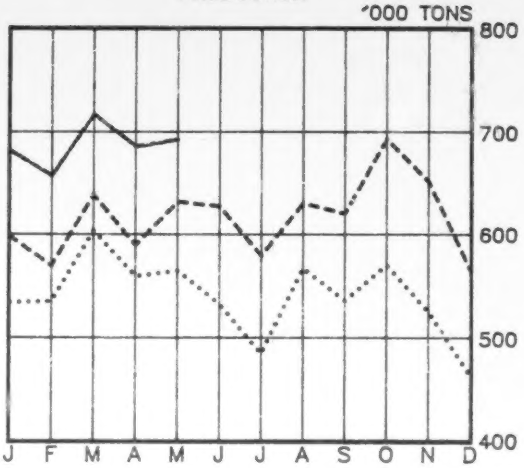
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



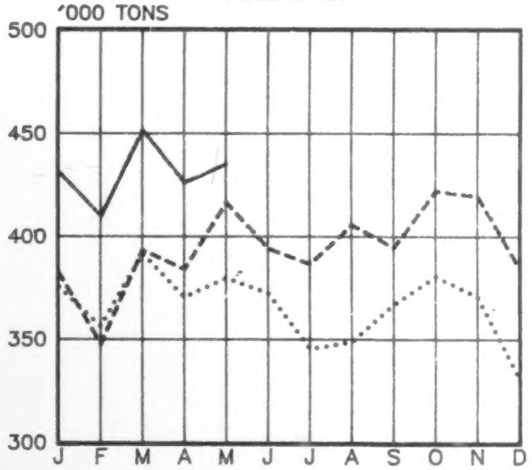
RECYCLED PAPERBOARD

PRODUCTION



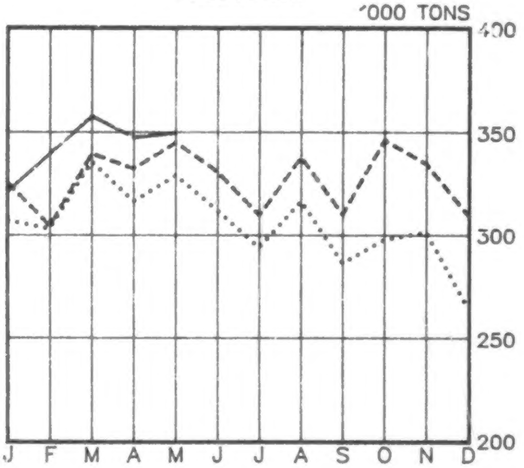
SEMICHEMICAL PAPERBOARD

PRODUCTION



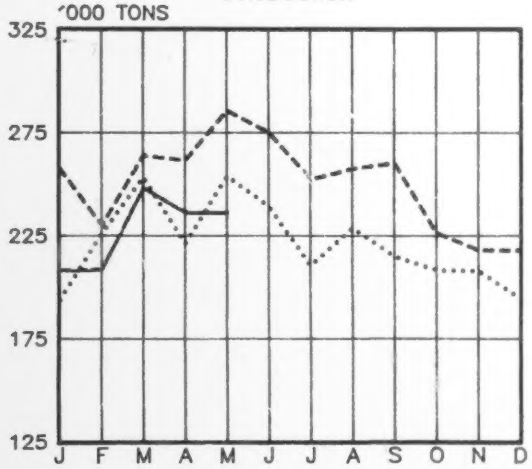
SOLID BLEACHED PAPERBOARD

PRODUCTION



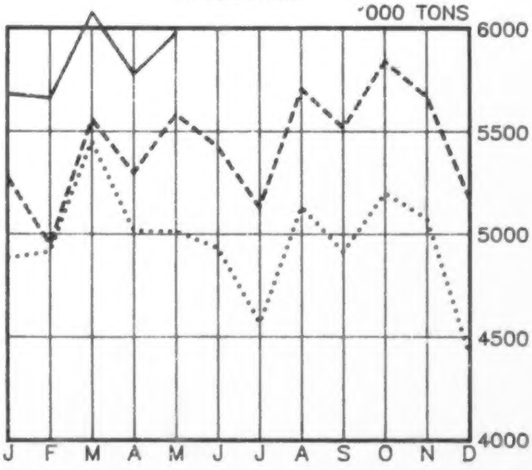
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1982 ········ 1983 - - - - - 1984 ———

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1983 Tons	YEAR 1983 $000	MARCH 1984 Tons	MARCH 1984 $000	APRIL 1984 Tons	APRIL 1984 $000	(1) Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulpwood Roundwood (cords)	155124	7471	17448	849	8838	399	152448	87.8
Pulpwood Chips	1991453	49104	336057	7040	200270	4300	2873214	42.3
Total All Imports	13248280	5526141	1214832	541541	1185624	550966	14776872	23.5
Wood Pulp Total	4083436	1472478	340982	132233	337658	138150	4308648	18.4
Waste Paper	100410	10537	8804	813	9088	1016	105432	49.0
Other Fibrous Materials	68003	24272	5487	2226	5849	2075	67787	2.7
Paper Board & Products Total	8986431	4018855	859559	406269	832929	409725	10285085	25.8
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	8834560	3582282	843672	365275	814337	360980	10094701	25.3
Paper Pbd & Prds ex Cnst&WMB	8509180	3911591	816765	395731	793653	399760	9856224	27.8
Paper & Paperboard Only	8357309	3475028	800879	354737	775060	350985	9655830	27.3
Paper Total	8189491	3428868	777328	348029	756428	345229	9388446	26.4
Newsprint	6919348	2757524	590980	242475	572889	239083	7344552	14.6
Printing & Writing	1151011	587426	172098	95641	168980	96285	1866879	105.6
Uncoated Groundwood	732237	331017	85055	41072	86990	43067	945656	56.8
Uncoated Book	154147	88632	27899	17815	23247	15398	290012	107.6
Coated Print.& Impres. Par	162441	101289	28280	18539	26066	17842	298251	168.3
Bristols	471	557	32	34	52	71	651	91.8
Writing and Similar Paper	81458	46718	26377	14140	28394	16095	277842	576.2
Thin (except Cigarette)	20258	19213	4355	4043	4231	3823	54767	328.9
Total Pkg & Other Paper	107515	75694	12528	8727	12471	8450	159248	54.5
Unbleached Kraft Paper	42013	17454	3815	1905	3227	1546	54700	37.4
Other Pkg. & Indust. Paper	65503	58240	8714	6822	9244	6904	104548	65.3
Tissue	11617	8225	1722	1186	2088	1402	17667	97.7
Paperboard, Total	167818	46160	23550	6708	18632	5766	267384	66.5
Test or Containerboard	48119	13042	7243	2187	6690	2278	81076	58.2
Semi-Chemical Corrugating	69564	14509	10350	2530	7479	1973	119561	88.5
Other Paperboard	50136	18609	5858	1991	4464	1514	66747	45.5
Convtd Paper&Paperbd Products	151872	436563	15887	40994	18593	48765	200394	58.6
Paper Products, Total	124816	373966	13667	35996	15699	42854	172232	68.8
Paperboard Products, Total	27055	62597	2220	4999	2894	5911	28162	15.7
Wet machine Board	3584	2422	316	235	241	162	3512	5.7
Construction Paper & Board	473667	104842	42477	10303	38036	9804	435360	-6.9
Notes								
Other: No Weight Avail. ($000)		148251		15890		13418	179774	50.0
Total Imports Incl. Other($000)		5674392		557432		564384	6729558	23.8

EXPORTS

	YEAR 1983 Tons	YEAR 1983 $000	MARCH 1984 Tons	MARCH 1984 $000	APRIL 1984 Tons	APRIL 1984 $000	(1)	
Pulpwood, Roundwood (cords)	69497	4405	3857	194	5185	289	48752	4.0
Pulpwood Chips	2554176	171269	204631	13355	188214	12920	2270220	-12.7
Total All Exports	10888949	4221511	1057363	407105	859557	349608	11042934	5.8
Wood Pulp,Total	3643963	1362022	373636	143124	249219	105064	3599138	1.4
Cotton Pulp and Other Pulp	102863	69805	4319	3320	8632	6595	95082	-3.7
Waste and Old Paper	2573716	308915	277824	32194	248111	31879	3066468	29.1
Paper, Board & Products,Total	4568407	2480769	401584	228468	353595	206071	4282245	-2.9
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	3984277	1717768	347314	160392	307309	142406	3670060	-4.8
Paper, Pbd & Prod ex Cnst&WMB	4501039	2448779	392871	223012	346385	202666	4186341	-3.3
Paper & Paperboard, Only	3916910	1685778	338701	154936	300110	139001	3584156	-5.2
Paper, Total	773414	599370	70340	54046	67647	50199	789924	3.0
Newsprint	294870	127119	24663	10832	25441	10710	286151	9.8
Printing & Writing	201798	198304	18804	20384	16091	16512	209732	1.2
Uncoated Groundwood	37289	33300	2423	2512	3344	3039	28443	-21.7
Clay Coated Paper	79182	60033	8479	7101	6831	5483	86014	17.5
Uncoated Free Sheet	59125	71662	6298	8400	4288	5597	64457	2.4
Other Printing & Writing	26202	33310	1604	2371	1628	2393	19818	-20.8
Total Pkg. & Other Paper	260865	255086	25181	20822	23915	21446	275935	-2.1
Unbleached Kraft	116170	43227	9221	3828	9711	3552	106589	-20.0
Other Pkg. & Indust. Paper	144695	211859	15960	17094	14204	17894	169346	13.8
Tissue	15881	18861	1691	1908	2200	1531	18107	6.7
Paperboard, Total	3143496	1086408	268362	100890	232483	88802	2794231	-7.3
Solid Wood Pulp	2993868	1016184	254323	93304	218468	83146	2651265	-7.9
Total Linerboard	2254538	575862	185757	53345	154614	45567	1912219	-8.3
Bleached Kraft Linerboard	160253	64914	10278	4841	4443	1981	141046	22.6
Unbleached Kraft Linerbd	2094285	510948	175479	48505	150172	43586	1771172	-10.1
Other Unbleached Kraft	107141	51822	9764	4750	14727	6599	123693	1.0
Other Bleached Kraft	558431	371357	53239	33705	45947	29906	579707	2.8
Semi-Chemical Corrugating	73758	17144	5564	1504	3180	1074	35647	-66.9
Recycled Paperboard	149628	70224	14038	7586	13995	5656	142966	5.9
Convtd Paper&Paperbd Products	584129	763001	54270	68076	46286	63664	612185	9.7
Paper Products, Total	311722	535596	29807	47005	24835	44957	324776	7.3
Paperboard Products, Total	272408	227406	24463	21071	21451	18708	287409	12.5
Wet Machine Board	11622	5420	1197	674	1119	567	12254	-21.5
Construction Paper & Board E	55746	26570	7416	4783	6081	2838	73650	31.6
Notes								
Other: No Weight Avail. ($000)		7965		856		653	7312	11.7
Total Exports Incl. Other($000)		4229475		407961		350261	4350684	6.4

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES
1987 = 100

	1982	1983	FEB.	MARCH	APRIL	MAY	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	273.2	271.4	283.3	286.4	290.1	292.7	288.7	6.7
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	275.9	273.3	284.2	287.1	290.6	297.7	288.3	6.3
Total Wood Pulp	379.1	347.1	371.5	376.0	392.5	405.1	382.3	11.1
Total Paper	286.3	282.3	288.6	299.2	300.6	301.3	288.4	7.0
Total Paper, exc. Newsprint	278.3	277.0	296.9	298.6	299.7	300.7	298.2	9.3
Newsprint	315.8	303.0	309.6	316.0	316.0	314.8	313.2	4.7
Total Paperboard	254.9	250.8	269.3	273.6	275.4	276.9	271.5	10.3
Total Paper and Paperboard #	276.5	272.4	288.0	291.2	292.7	293.6	289.9	8.0
Converted Products	264.4	265.4	271.6	274.1	277.7	280.6	274.9	3.9
Waste Paper	121.1	158.6	229.3	242.9	258.8	259.3	240.4	107.2
All Commodities	299.3	303.1	308.8	311.1	311.4	311.7	310.2	3.2
Industrial Commodities	312.3	315.7	320.4	321.9	322.5	323.3	321.4	2.5

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Paper plus Paperboard
New Supply

	Production	Imports	Exports	New Supply	Real GNP (Bil. 1972 $)	New Supply to Real GNP 000T/Bil.$
	---------(000 Tons,	Annual Rate)--------				
1976	55,151	7,042	3,388	58,805	1298.2	45.3
1977	56,823	7,294	3,171	60,946	1369.7	44.5
1978	58,744	8,781	3,301	64,224	1438.6	44.6
1979	61,271	8,738	3,610	66,399	1479.4	44.9
1980	61,147	8,304	5,148	64,303	1475.0	43.6
1981	62,262	7,941	4,561	65,642	1513.8	43.4
1982	59,456	7,602	4,187	62,871	1485.4	42.3
1983						
I	62,744	7,654	4,244	66,154	1490.1	44.4
II	63,181	8,643	4,726	67,098	1525.3	44.0
III	66,810	8,279	4,657	70,432	1553.4	45.3
IV	68,391	9,461	4,377	73,475	1572.5	46.7
Average	65,281	8,509	4,501	69,290	1535.3	45.1
1984						
I	68,473	9,967	4,209	74,231	1609.3	46.1
II E	68,000	9,600	4,200	73,400	1632.0E	45.0

E - Estimated by A.P.I.

Continued from Page 2

supply to record-highs. Revised data for 1983 show total new supply (production plus imports minus exports) at 69.3 million tons, 10% above the 1982 level and 4.4% above the record high of 66.4 million tons established in 1979.

More importantly, the increase in total new supply (which is a good proxy for consumption by final users) has been much larger than the gain in real gross national product. As a result, the ratio of new supply to real GNP for 1983 as a whole was equivalent to 45,100 tons per billion dollars of the real GNP, 6.6% higher than the 1982 cyclical low of 42,300, but almost one percent higher than the average level of the entire 1976-1979 period.

On a quarterly basis, the ratio of new supply to real GNP exceeded 46,000 tons per billion dollars of the real GNP in the fourth quarter of 1983 and the first quarter of 1984 and is estimated at 45,000 tons in the second quarter of the year.

The stronger increase in new supply relative to the real gross national product during the past four quarters largely reflected the strength in some specific markets for paper and paperboard; inventory building also occurred but at a relatively modest rate. The attached Industry Data Sheet shows some of the specific market trends that were stronger than that of real GNP. For example, in 1983 the index of printing and writing output rose 5.8% over the 1982 level, compared to the 3.4% increase in real GNP. In the first five months of 1984 the increase in shipments of printing-writing papers over year-ago levels was 7%, but this just about matched the 7% gain in real GNP over its first half 1983 rate.

The table on the lower part of page 10 summarizes the trends in production, new supply, real GNP, and the ratios of new supply to real GNP, for the years 1976-1982, together with quarterly data for 1983 and the first 2 quarters of 1984. The production data for the second quarter of 1984 includes estimates of production for June 1984 based on weekly data. The estimates of imports and exports for the quarter are based on Census data for April 1984, adjusted for normal trends in May and June.

Fibrous Raw Materials

Total production of wood pulp is keeping pace with paper and paperboard output. Available data indicate that the rate of production so far this year is at the rate of 56 million tons per year, about 9% above the year-ago level, with the paper grade chemical pulps up 8% and the mechanical pulps up about 12%.

Continued on Page 12

Continued from Page 11

Production of chemical paper grade market wood pulp in the first five months of 1984 was about 7.5% over its year-ago level. A decline in May output to a level below the average of the preceding months, brought the year-to-year increase down from the 11% recorded for the first four months of the year.

Shipments of these pulps also declined more than seasonally from April to May, but the five-month 1984 total was still 10% above the comparable 1983 level. Shipments in May were a little stronger than production, resulting in a small decline in mill inventories. At the same time, inventories of purchased wood pulp at paper and paperboard mills have been in a steeply rising trend since the beginning of this year; the lower panel of the table on page 5 shows that the level of these inventories at the end of April was 44% above the comparable year-ago figure, and 24% above the year-end 1983 level.

Shipments of chemical paper grade market pulp continue to follow the pattern evident in the earlier months of this year, with the largest gains in shipments to the domestic market and to Japan. For the entire five months, shipments of chemical paper grade market pulp to the domestic market rose 18% over their year-ago level, while shipments to Japan rose 35%. At the same time, shipments to the important Western European market declined 7%. This decline was in line with the average decline in shipments of the other major chemical paper grade market pulp producers to this region. Shipments to all other markets from both the United States producers and the other major producing countries rose by 7%.

Consumption of waste paper continued to move strongly ahead of its year-ago levels. The table on page 5 shows that in the first four months of 1984, consumption of waste paper at paper and board mills rose 11% from its year-earlier level. Preliminary data for May indicate an even stronger gain in May, bringing the five-month increase in waste paper consumption closer to 12%. The major gains in consumption appear to be taking place in the Southern and Far Western states.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

JUNE 26, 1984

	PRODUCTION (000 TONS)					
	May 1984	April 1984	May 1983	Jan - 1984	May - 1983	% Change 84/83
PAPER GRADES	P	R				
Newsprint	481	465	440	2335	2149	8.6
Printing & Writing	1565	1528	1455	7766	7036	10.4
Uncoated Groundwood (s)	134	133	132	670	612	9.4
Coated Paper (s)	532	510	464	2593	2226	16.5
Uncoated Free Sheet Paper (s)	773	756	739	3881	3620	7.2
Thin Paper (s)	29	29	28	145	141	2.9
Cotton Fiber Paper (s)	11	13	12	61	55	9.8
Bleached Bristols (s)	86	87	81	416	381	9.2
Tissue Paper	412	402	412	2035	1981	2.7
Total Pkg & Other Paper	502	497	464	2502	2289	9.3
Unbleached Kraft Packaging & Indl. Converting (s)	330	334	304	1660	1548	7.2
Other Paper *	172	163	161	842	740	13.7
TOTAL PAPER	2959	2891	2771	14638	13455	8.8
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1542	1428	1421	7235	6612	9.4
Unbleached Kraft Linerboard	1429	1344	1319	6744	6150	9.7
Other Unbl. Kraft Paperboard	113	84	101	491	462	6.2
Semichemical Paperboard	435	426	416	2154	1923	12.0
Bleached Paperboard	350	348	345	1716	1647	4.2
Recycled Paperboard	693	686	632	3435	3029	13.4
TOTAL PAPERBOARD	3019	2887	2814	14540	13211	10.1
TOTAL PAPER AND PAPERBOARD	5979	5778	5585	29177	26666	9.4

WOOD PULP (ALL GRADES)	April 1984	March 1984	April 1983	Jan - 1984	-April - 1983	% Change 84/83
Dissolving & Special Alpha	117	106	95	426	408	4.3
Bleached Sulfite	129	125	108	467	431	8.2
Unbleached Sulfite	24	23	23	95	106	-9.8
Bleached & Semi-Bl. Sulfate	1886	1946	1772	7435	6948	7.0
Unbleached Sulfate	1745	1828	1607	6959	6357	9.5
Semichemical	351	365	314	1396	1249	11.8
Groundwood and Thermomechanical	472	466	400	1855	1661	11.6
TOTAL PULP DIVISION DATA	4722	4858	4319	18632	17160	8.6

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

June 30, 1984

	Full Year		INDUSTRY DATA 1984 R	R	P	Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
PAPER AND PAPERBOARD -- Tons (000)	1982	1983	March	April	May		
Total Production (API).......| excluding |...	59456	65139	6078	5778	5979	70026	9.4
Total Seasonally Adjusted....|construction|...			5636	5672	5702	68303	8.7
Imports (including Products).| and wet |..E	7603	8508	817	794	N.A.	9800	24.4
Exports (including Products).| machine |..E	4187	4501	393	346	N.A.	4206	-5.5
Apparent Consumption.........| grades |...	62872a	68147b	6060	6120	6145	7397[illegible]e	+11.7
Paper Production % Tonnage Capacity...........	87.8s	93.6s	98.0	96.4	95.1	96.8sh	-
Paperboard Production % Tonnage Capacity......	92.1s	90.4s	97.6	96.8	97.2	96.8s	-
			February	March	April		
IMPORTS.....|Including Construction and |.....	8024	8986	860	833	838	10248	22.9
EXPORTS.....| WMB Grades (excl. HPB) |.....	4246	4568	402	354	362	4298	-5.3
MARKET WOOD PULP PRODUCTION - Tons (000)........	5732	6478	566	592	583	6862	5.5
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	49334	52537	4539	4858	4722	55897	8.6
WOOD PULP IMPORTS - TONS (000)..................	3656	4093	420	341	338	4308	18.4
WOOD PULP EXPORTS - TONS (000)..................	3395	3644	317	374	249	3599	1.4
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			February	March	April		
Wood Pulp.............|consumption for|.....	47767	50961	4525	4849	4521	54188	9.5
Waste Paper...........|construction & |.....	13565	14539	1276	1388	1325	15847	11.1
TOTAL..........| WMB grades |.....	61332	65500	5801	6038	[illegible]46	70035	9.9
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79039	85442	7295	7660	7344	88452	4.2
EMPLOYMENT (000)			March	April	May		
Paper and Allied Products..........Total......	662.4	661.6	676.8	677.1	676.8	675.5	3.8
Pulp, Paper and Board Mills........Total.....E	258.9	258.2	261.9	261.7	263.4	262.0	2.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	9.32	9.94	10.25	10.29	10.35	10.26	5.7
Pulp, Paper Mills...........................E	10.87	11.70	12.12	12.19	12.23	12.15	7.1
Paperboard Mills............................E	11.13	12.11	12.69	12.79	12.80	12.69	7.7
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q4	1984 Q1	1984 Q2		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.97	6.18	6.24	7.07	7.08	7.13y	15.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			March	April	May		
|IN PULP, PAPER |...Production Workers..........	109.3R	119.9R	122.4	121.6	119.9	122.3	2.7
|AND BOARD MILLS|...All Employees..............	107.8R	118.4R	121.3	121.0	119.4	121.5	3.9
PAPER AND ALLIED PRODUCTS (Million $)			February	March	April		
Industry Shipments (Dept. of Commerce)*........	78992	85662	7797	7778	7987	93915	15.6
Pulp, Paper and Paperboard*................	33523	36346	3398	3377	3542	40892	19.3
Inventories (End of Period) - Total Industry*.	8607	8729	8898	8914	9028	9028	8.7
Pulp, Paper and Paperboard*................	3385	3283	3293	3293	3328	3328	0.8
			1983 Q3	1983 Q4	1984 Q1		
Sales (Corporations Only, FTC)................	60293	66100	16797	17279	17458	69836	12.5
Earnings (Corporations Only, FTC).............	1460	2337	678	675	629	2516	42.6
Depreciation (Corporations Only, FTC).........	2379	2645	689	655	693	2772	8.1
Net Worth (Corporations Only, FTC)............	26705	27509	27381	27509	27617	27617	2.3
PRICE INDEXES (Bureau of Labor Stats)1967=100			March	April	May		
Pulp, Paper & Products, ex. Building Grades...	273.2	271.4	288.4	290.1	292.7	286.7	6.7
Wood Pulp....................................	379.1	347.1	376.0	382.5	40[illegible].1	382.3	11.1
Waste Paper..................................	121.1	158.6	242.9	258.8	259.3	Not Available	
Paper..	286.3	282.3	299.2	300.6	301.3	298.4	7.0
Paperboard...................................	254.9	250.8	273.8	275.4	278.9	271.5	10.3
PAPER DEMAND (INDEXED: 1967=100)			March	April	May		
Total Paper Production *......................	145.2	157.5	161.8	165.2	163.7	164.4	8.0
Paper New Supply *............................	135.1	147.6	154.9	157.3	158.0	15[illegible].7	11.8
Total End - Use Index *.....................	149.5	157.8	169.2	170.1	170.0	169.1	11.7
Production of Nondurable Goods *...(19%)..	156.1	168.0	177.8	179.9	180.2	178.1	10.5
Disposable Income (Constant $) *...(23%)..	157.8	163.4	172.0	172.3	173.3	172.0	7.0
Total Printing and Publishing *...(58%)..	144.0	152.3	165.2	166.0	165.4	165.0	14.2
Trend Factor	--------------------	------------------	-----Not	Available-----	--------------	--------------	------------
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *.................	127.6	141.2	147.8	146.7	149.7	148.8	9.4
Production for Domestic Use	122.7	135.5	142.8	142.3	145.4	145.0	11.8
Total End - Use Index *...................	138.5	148.9	159.9	161.7	162.0	160.2	12.6
Production of Consumer Goods *...(60.49%)	142.7	151.8	160.0	161.7	161.7	160.5	10.0
Production of Equipment *...(6.62%)	139.8	140.8	156.6	158.8	159.9	157.3	16.6
Production of Materials *...(32.89%)	133.7	145.2	160.5	162.3	163.1	160.4	16.9
Trend Factor	--------------------	------------------	-----Not	Available-----	--------------	--------------	------------
NEWSPRINT MARKETS			February	March	April		
Consumption by Publishers - Tons (000)........	11141	11671	970	1043	1068	12045	9.8
Newspaper Pub. and Printing Empl. Total(000)..	417.5	421.6	437.1	437.1	438.0	437.0	5.1
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PAR/PIB, Inc.)......	121617	56028	11174	12628	13825	139680	9.2
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	22778	26532	2405	2623	2525	29928	20.8
Inventories (End of Period)	1885	2341	2401	2410	2410	2410	21.7
FIBRE BOX DATA (Fibre Box Association)			March	April	May		
Fibre Box Shipments (Million square feet)......	235185	252539	23651	21951	23001	268542	10.7
Container'bd Inventory at Mill & Plant(000Tons)	2584	2437	2448	2512	2526	2526	2.6
RETAIL TRADE (Million $)							
Total Retail Sales *..........................	1074487	1171815	103377	107197	107288	1272489	12.7
Nondurable Goods Stores Sales *..............	753568	793398	68587	69776	69893	831581	7.3
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	138.6	147.6	160.8	162.5	163.2	161.0	14.6
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	299.3	303.1	311.1	311.4	311.7	310.2	3.2
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	289.1	298.4	307.3	308.8	309.7	307.5	4.4
			February	March	April		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	344.8	387.9	399.2	402.5	407.7	407.7	18.3
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions$).			1983 Q3	1983 Q4	1984 Q1		
G.N.P. or Expenditure - Current $.............	3073.0	3310.5	3362.2	3436.2	3550.1	3550.1	11.9
G.N.P. or Expenditure - 1972 $................	1485.4	1535.3	1553.4	1572.5	1609.3	1609.3	8.0

lb/capita

	Par&Parbd		Othr		Totl	Popul(mil)
.a -	543	+	15	=	558	232.0
.b -	589	+	18	=	607	234.2
.c -	631	+	18	=	649	234.9

.E - Last month estimated by API
.e - estimated by API

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted

A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 62 - No. 7 JULY, 1984

Paper and Paperboard Production: Holding Strong

Production of paper and paperboard continued at close to capacity levels right up to the start of the July vacation period. Total production in the first half of the year stood at a record high of 35 million tons. This was 9% over the level of the first half of 1983, itself a record high.

Adjusted for seasonal workday factors, the rate of production in the first half of 1984 was 68.4 million tons per year, 5% over the average rate for 1983 as a whole. Production increased by one million tons from the first half to second half of 1983, although seasonal factors normally tend to keep the second half total below that of the first. The seasonally adjusted rate of production rose 7.3% from the first half to the second half of 1983 and another 1.2% in the first half of 1984. New capacity coming onstream in the second half of 1984 will permit further increases in production. Most of the new capacity is in the printing-writing grades, largely in the uncoated free sheet category. Based on data from API's November 1983 Capacity Survey and further announcements since that data, capacity to produce uncoated free sheet papers will increase about 700,000 annual tons during the course of 1984, with most of that coming onstream the last half of the year.

The rate of shipments of uncoated free sheet papers during the second quarter of 1984 was above the rate of incoming new orders, so that the order of backlog declined. At the same time, a significant part of the demand was met by imports. Data from Department of Commerce show that imports of uncoated book papers in the first five months of 1984 were nearly 3 times the year-ago level, climbing to a rate of 283,000 tons per year.

Similarly, imports of writing and similar papers, the other major sector of uncoated free sheet papers, were 5.7 times their year-ago level, at a rate of 269,000 tons per year. Altogether, imports of uncoated free sheet papers accounted for nearly 6% of the total new supply. In 1983 imports accounted for less than 3% of the total new supply.

Continued on Page 2

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Continued from Page 1

The demand for the other grades of printing-writing papers was also quite strong. Shipments of groundwood papers, for example, were 9.3% over their year-ago level in the first half of 1984, while coated paper shipments were up an astonishing 16%. Here too, imports accounted for an increasing share of the total demand. In the first five months of 1984, imports were at the rate of 316,000 tons per year, 190% over their year-ago level. At the same time, however, exports showed a 23% gain, moving to a rate of nearly 100,000 tons per year.

Among the other paper grades, the largest gains were evident in the "other" packaging and industrial converting grades, where production was up 12%. Production of unbleached kraft papers, which in recent years had shown only a modest growth, was 6% over its year-ago level for the first half of 1984.

The demand for paperboard also continued to be strong. Total production in the first half of the year was 10% over its year-ago level, with production of containerboard for domestic use up nearly 13% and boxboard production for domestic use up 8%. The largest gains, however, continued to be in the other paperboard grades including, in particular, gypsum wallboard facings. Total production for domestic use of the other papers (including tube, can and drum stock as well as the non-packaging paperboard products) was 17% over its year-ago level.

Exports of paperboard in the first half of 1984 were down by 13%, with the important linerboard grade, at 2.1 million tons per year, down 11%. The year other than 1983 in which exports of kraft linerboard exceeded 2 million tons was 1980, a time when the People's Republic of China sharply increased its kraft linerboard imports.

Production of paperboard for domestic use has generally been moving in line with trends in its major markets. For example, shipments of fibre boxes in the first half of 1984 were 9.1% above their year-ago total. Over the same period, inventories of containerboard at mills and plants rose by nearly 200,000 tons, the equivalent of 1.7% of the total containerboard production, thus bringing the trend of containerboard production for domestic use more in line with that of shipments of fibre boxes. The level of inventories of containerboard at fibre box plants and mills as of the end of June 1984 was equivalent to 7.0 weeks of supply; a year ago the ratio was 6.8 weeks of supply.

Continued on Page 11

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

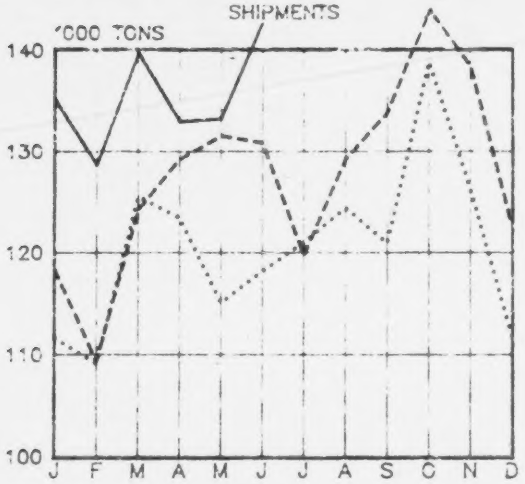
	YEAR 1982	YEAR 1983	MARCH 1984	APRIL 1984	MAY 1984	JUNE 1984	Annual Rate Y-T-D 1984	% Change from sam Period Last Yea
PAPER					R	P		
Newsprint - Production	5042	5167	478	465	481	468	5606	9.5
- Shipments	4988	5153	500	484	497	461	5706	13.8
Printing & Writing	15611	17387	1623	1528	1611	1536	18699	10.0
Groundwood Paper - Shipments	1471	1531	140	133	133	143	1624	9.3
- New Orders	1481	1581	141	139	117	136	1651	10.5
- Unfilled Orders	92	159	187	194	173	177	177	65.3
Coated Paper - Shipments	4974	5696	531	510	546	518	6251	15.7
- New Orders	4941	5896	552	316	489	537	6235	8.0
- Unfilled Orders	322	546	557	568	508	522	522	1.3
Unctd Free Sheet - Shipments	7855	8767	814	757	804	750	9327	6.9
- New Orders	7827	9077	820	697	774	671	8857	-2.4
- Unfilled Orders	321	686	587	522	503	432	432	-20.3
Thin Paper - Shipments	329	328	32	29	29	31	353	2.9
Cotton Fiber Paper - Shipments	120	131	13	13	12	11	146	12.2
Bleached Bristols - Production	862	934	93	87	86	83	998	8.9
Tissue Paper - Production	4438	4790	421	402	412	406	4882	2.8
Total Packaging & Other Paper	5300	5618	527	497	502	471	5945	8.1
Unbl. Kraft Paper - Shipments	3688	3792	352	334	330	316	3951	6.2
Other Paper - Production	1612	1826	175	163	172	155	1993	12.1
TOTAL PAPER-Production-Unadj. *	30390	32962	3050	2892	3005	2881	35131	8.5
-Production-S.A. *			2826	2883	2901	2813	34410	7.9
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	22589	24779	2312	2201	2324	2283	26770	8.3
Unbl. Kraft Linerboard (1)	13494	15001	1397	1343	1426	1389	16259	10.1
Production for Export	1931	2281	190	181	188	178	2085	-10.9
Other Unbl. Kraft Paperboard	1040	1121	106	83	113	108	1198	5.4
Semichemical Paperboard	4389	4730	451	427	436	443	5187	12.1
Production for Export	185	193	14	13	12	10	150	-27.4
Solid Bleached Paperboard	3665	3826	358	348	348	343	4116	4.1
Production for Export	525	514	43	42	37	42	481	-13.7
Recycled Paperboard	6478	7398	717	687	688	673	8209	12.2
Production for Export	13	24	1	1	1	1	13	-58.0
TOTAL PAPERBOARD-Prod.-Unadj. *	29065	32177	3029	2888	3012	2956	34979	10.0
- Containerboard Prod.(Dom. Use)	17508	18173	1810	1739	1830	1810	21193	12.7
- Boxboard Prod.(Dom. Use) (2)	5150	5551	531	508	500	481	5986	8.0
- All Other P'bd Prod.(D.U.) (2)	3753	4397	439	405	449	433	5059	17.2
- Total Paperbd Prod. for Export	2654	3012	248	236	238	231	2740	-13.0
TOTAL PAPERBOARD PROD.- S.A. *			2810	2790	2839	2856	33993	9.4
TOTAL PAPER AND PAPERBOARD								
Production - actual *	59456	65139	6079	5780	6017	5837	70108	8.2
Production - S.A. *			5636	5673	5740	5688	68402	8.8

(1) Includes all exports of kraft paperboard.
(2) Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* NOTE: Year 1984 contains one more day than year 1983.

P Preliminary
R Revised
S.A. Seasonally Adjusted

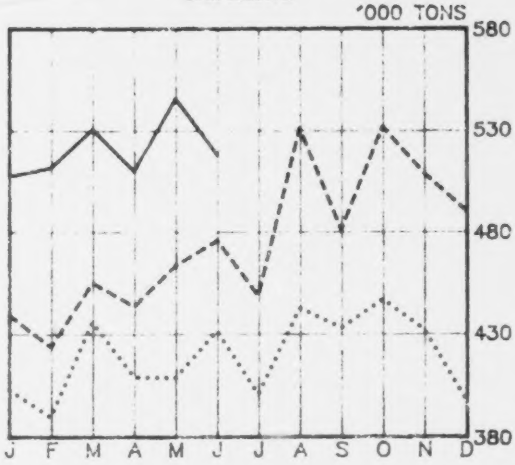
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



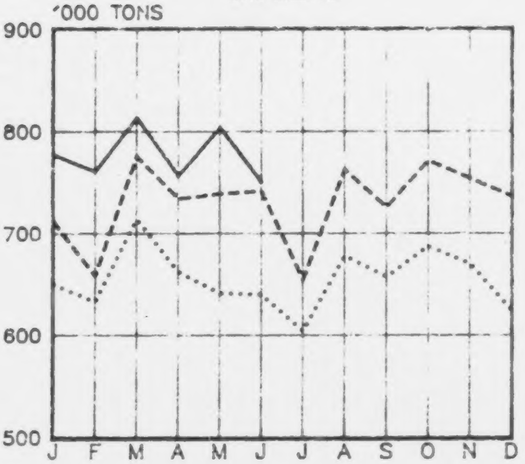
COATED PAPER

SHIPMENTS



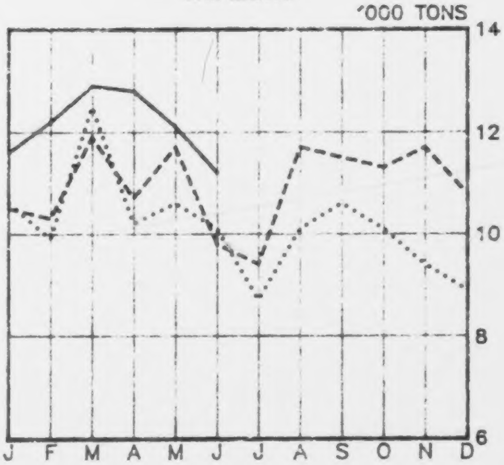
UNCOATED FREE SHEET PAPERS

SHIPMENTS



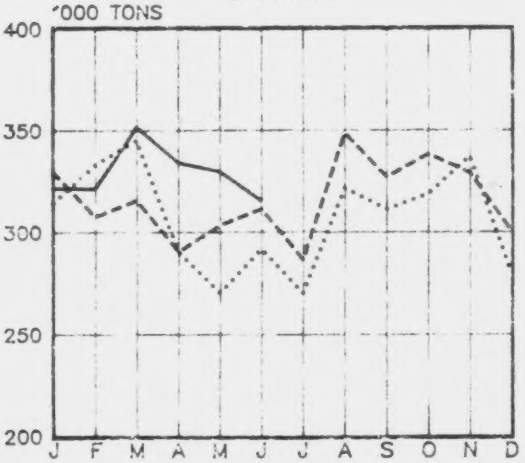
COTTON FIBER PAPER

SHIPMENTS



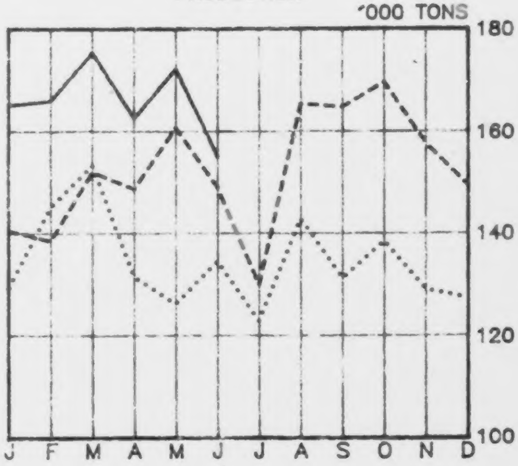
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1982 ········ 1983 - - - - 1984 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1982	YEAR 1983	FEB. 1984	MARCH 1984	APRIL 1984	MAY 1984	Annual Rate Y-T-D 1984	% Change from same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	49334	52537	4539	4858	4722	4769	56184	8.0
- Imports	3656	4093	420	341	338	387	4376	14.6
- Exports	3395	3644	317	374	249	336	3687	2.8
- New Supply	48585	52986	4642	4825	4811	4820	56853	8.8
Dissolving Pulp - Production	1092	1261	106	106	117	109	1284	-1.2
- Imports	186	192	12	20	8	17	172	-23.1
- Exports	631	647	38	74	53	47	633	-0.8
- New Supply	647	806	79	52	71	80	823	-7.0
Paper Grades Chemical Pulp - Production	38478	42358	3651	3921	3783	3830	45085	7.8
- Imports	3302	3708	380	301	309	348	3942	14.7
- Exports	2738	2858	278	295	192	283	3006	3.8
- New Supply	40044	43108	3754	3926	3900	3896	48021	8.4
Groundwood and Thermo-Mech. - Production	5064	5067	454	466	472	476	5583	11.7
- Imports	167	185	28	20	21	21	261	65.1
- Exports	27	40	1	4	4	7	47	1.9
- New Supply	5204	5222	481	482	488	489	5808	13.5
Semi-Chemical - Production	3699	3851	328	365	351	355	4201	11.0
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp ------	
- New Supply	3698	3851	328	365	351	355	4201	11.0
MARKET WOOD PULP								
Total Market Wood Pulp - Production	5732	6478	566	582	584	561	6815	5.7
- Imports	2443	2945	274	283	269	274	3184	15.3
- Exports	3143	3421	317	332	281	295	3559	4.4
- New Supply	5031	6002	523	544	572	540	6450	11.1
Dissolving Pulp - Production	1089	1260	106	106	117	110	1283	-1.3
- Imports	184	210	13	21	12	24	219	0.3
- Exports	675	698	52	83	61	63	734	8.8
- New Supply	608	772	67	44	68	71	768	-9.0
Paper Grades Chemical Pulp - Production	4843	5206	458	485	467	450	5518	7.5
- Imports	2202	2898	254	259	252	242	2907	15.2
- Exports	2468	2723	265	249	220	232	2826	3.3
- New Supply	4377	5181	448	495	498	460	5601	13.8
Groundwood Pulp and All Other - Production	1	12	1	1	1	1	13	12.8
- Imports	46	38	7	3	13	8	88	219.8
- Exports	1	0	0	0	0	0	0	0.0
- New Supply	46	49	8	4	14	9	101	160.7

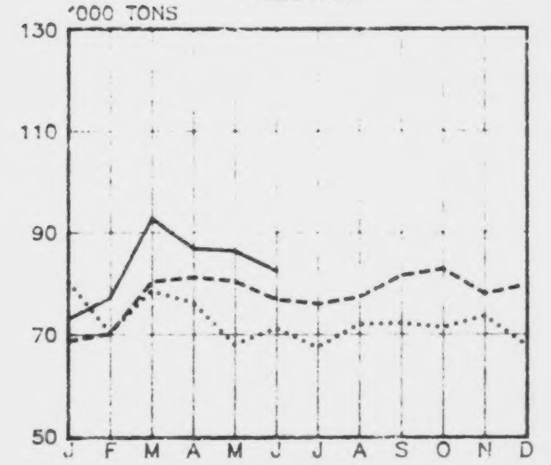
SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

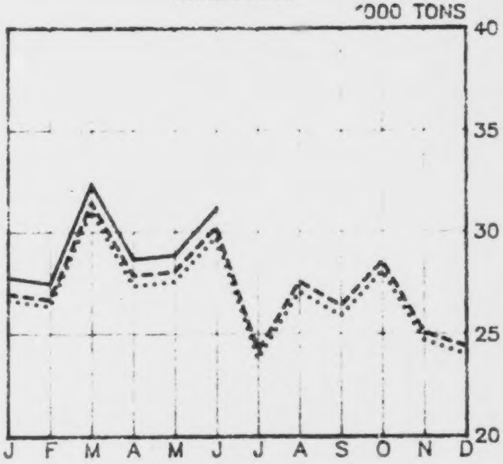
FIBROUS RAW MATERIALS
(Thousands of tons)

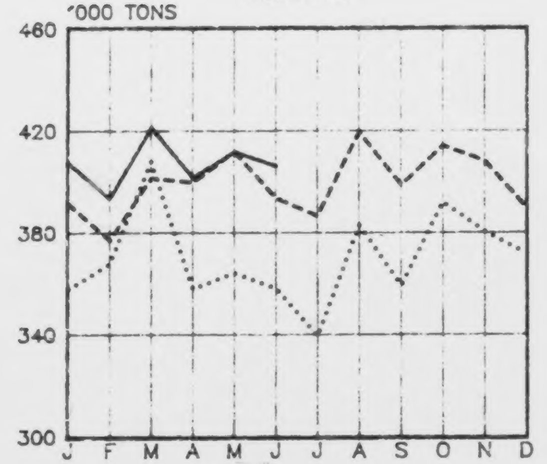
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	61332	65500	5801	6038	5872	6099	70728	8.9
Total Wood Pulp	47767	50961	4525	4649	4550	4710	54725	8.5
Waste Paper	13565	14539	1276	1389	1322	1389	16005	11.3
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	177	170	142	154	157	146	146	-27.6
Market Pulp at Pulp Mills	437	384	351	324	341	329	329	-25.5
Mkt Pulp at Ppr. & Bd. Mills *	429	522	546	604	618	594	594	28.9
Waste Paper at Paper &Bd. Mills	1022	920	896	896	859	856	856	3.6
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	37	26	23	21	22	21	21	-30.0

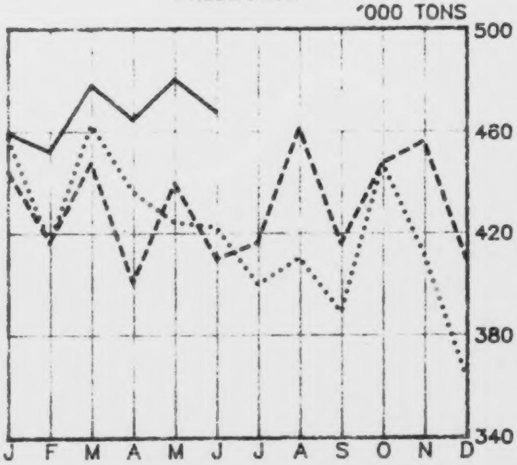
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

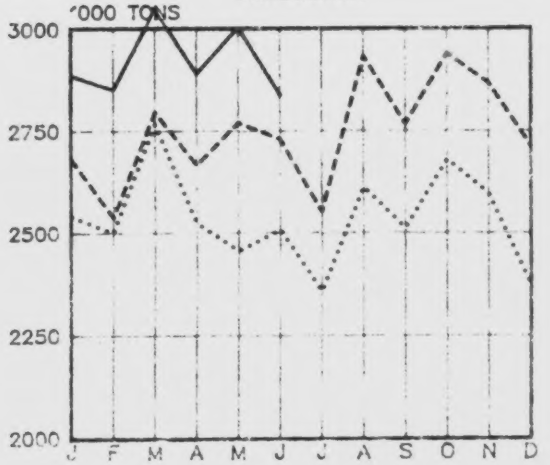
* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

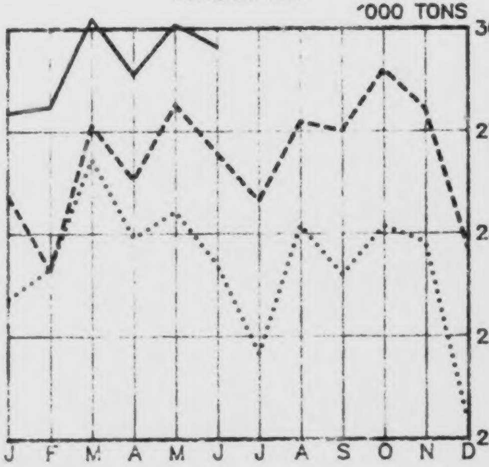

BLEACHED BRISTOLS
PRODUCTION


THIN PAPER
PRODUCTION


TISSUE PAPER
PRODUCTION


NEWSPRINT
PRODUCTION


TOTAL PAPER
PRODUCTION


TOTAL PAPERBOARD
PRODUCTION

1982 .... 1983 ------ 1984 ————

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1982	YEAR 1983	FEB. 1984	MARCH 1984	APRIL 1984	MAY 1984	Annual Rate Y-T-D 1984	% Change from same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	78519	84475	7434	7619	7100	7425	87893	7.0
	- Total Consumpt.	79039	85442	7295	7660	7344	7439	88615	4.6
	- Residues *	31152	32755	2813	2876	2755	2817	33156	3.7
	- Inventories	5426	5229	5192	5157	4777	4782	4782	2.2
So. Atlantic	- Total Receipts	23769	25736	2204	2243	1970	2285	25910	2.0
	- Total Consumpt	23725	25847	2238	2275	2020	2212	26150	0.5
	- Residues *	8273	7904	685	689	624	715	8071	4.7
	- Inventories	1165	1163	1052	1017	900	1033	1033	5.6
Northeast	- Total Receipts	7283	7051	665	643	535	566	7414	11.2
	- Total Consumpt	7221	7274	642	673	693	586	7853	8.1
	- Residues *	1452	1199	114	113	127	125	[illegible]404	18.2
	- Inventories	652	577	621	611	459	410	410	3.5
South Central	- Total Receipts	26510	29409	2484	2625	2634	2638	30446	7.7
	- Total Consumpt	27153	29152	2483	2641	2539	2591	30322	5.6
	- Residues *	8616	9218	757	762	761	748	8854	-0.6
	- Inventories	1346	1536	1455	1350	1375	1381	1381	11.7
North Central	- Total Receipts	5601	6265	688	633	439	554	7044	13.6
	- Total Consumpt	5706	6343	542	611	552	590	6886	7.5
	- Residues *	1517	1822	146	130	111	146	1524	-16.7
	- Inventories	925	851	987	1030	890	836	836	4.5
West	- Total Receipts	15356	16014	1393	1475	1521	1382	17076	9.7
	- Total Consumpt	15234	16826	1390	1460	1540	1460	17405	6.5
	- Residues *	11294	12612	1111	1182	1132	1083	13202	7.9
	- Inventories	1338	1102	1077	1149	1153	1122	1122	-11.4

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1983 Tons	YEAR 1983 $000	APRIL 1984 Tons	APRIL 1984 $000	MAY 1984 Tons	MAY 1984 $000	Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	155124	7471	8838	399	17295	1022	163466	75.9
Pulpwood Chips	1987168	48979	200269	4299	159236	3587	2680378	32.8
Wood Pulp, Total	3755201	1363975	302826	124939	334127	144240	3984821	15.3
Waste Fibrous Materials, Total	157732	26491	13002	2227	14411	2258	159466	14.5
Paper, Board & Products, Total	8274914	3372726	690529	298991	747705	319242	8828085	12.7
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	8221322	3274062	685101	288384	742036	308865	8762316	12.5
Paper Paperboard & Products	7846516	3277974	655383	290242	712265	311177	8427388	13.7
Paper & Paperboard, Only	7792924	31793[illegible]	649966	279635	706595	300800	8361608	13.5
Paper, Total	7633585	3139193	632005	274217	687133	295077	8115340	12.5
Newsprint	6845135	2732234	559922	234506	615912	256631	7246627	11.4
Printing, Writing & Rel. Pap.	695907	348512	62263	33757	60022	31763	743938	18.4
Pack. & Ind. Conv. Paper	79209	46889	8015	4626	9422	5192	106131	45.5
Special Industrial Paper	2732	4473	133	230	298	502	3135	23.6
Tissue Paper	10602	7085	1672	1098	1480	990	15511	74.7
Paperboard, Total	159339	40117	17861	5418	19462	5723	246269	62.8
Convtd Paper&Paperbd Products	53592	98864	5428	10607	5670	10377	65780	42.4
Wet Machine Board	3036	1816	184	120	200	147	2679	-17.4
Construction Paper & Board	425362	82836	34951	8629	35240	7918	398028	-4.9

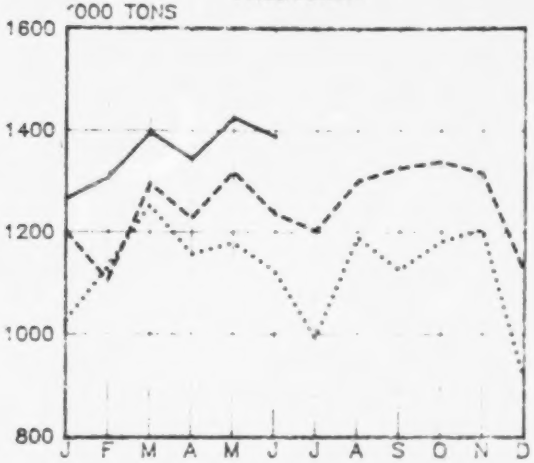
EXPORTS TO CANADA

	YEAR 1983 Tons	YEAR 1983 $000	APRIL 1984 Tons	APRIL 1984 $000	MAY 1984 Tons	MAY 1984 $000	Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	68965	4381	5195	289	7954	473	55714	-0.9
Pulpwood Chips	38246	2026	5850	458	5457	234	39041	5.5
Wood Pulp, Total	133633	55369	16002	7130	16749	7872	177883	24.9
Cotton Pulp & Other Pulp	9567	5287	1047	623	842	525	11638	35.2
Waste Paper	346809	39478	23685	2739	35751	4028	331428	2.1
Paper, Board & Products, Total	659229	471256	66982	44945	80755	53069	815422	26.6
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	448117	306687	49931	29839	62541	37651	593215	33.5
Paper, Paperboard & Products	628109	459325	63502	43664	77509	51530	783373	27.7
Paper & Paperboard, Only	416998	294756	46451	28557	59295	36112	561166	35.8
Paper, Total	230771	210626	24438	20519	36391	26994	330377	44.8
Newsprint	4312	3805	505	407	384	416	5983	62.1
Printing, Writing & Rel. Pap.	125[illegible]	101541	10009	9144	14827	13833	145492	14.4
Pack. & Ind. Conv. Paper	34403	20921	4217	2181	5137	2972	50400	72.9
Special Industrial Paper	63390	81389	8548	8518	15819	9481	125610	87.0
Tissue	3556	2969	160	270	224	293	289[illegible]	-33.5
Paperboard, Total	186226	84131	22013	8038	22904	9118	230788	24.6
Convtd Paper&Paperbd Products	211112	164568	17051	15106	18214	15417	222207	11.2
Wet Machine Board	5289	2976	325	233	854	540	5609	-14.4
Construction Pap & Bd. E	25831	8955	3155	1049	2392	999	26439	8.3

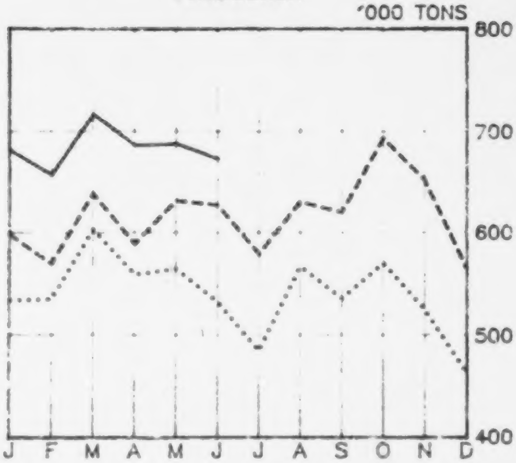
SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

BEST AVAILABLE COPY

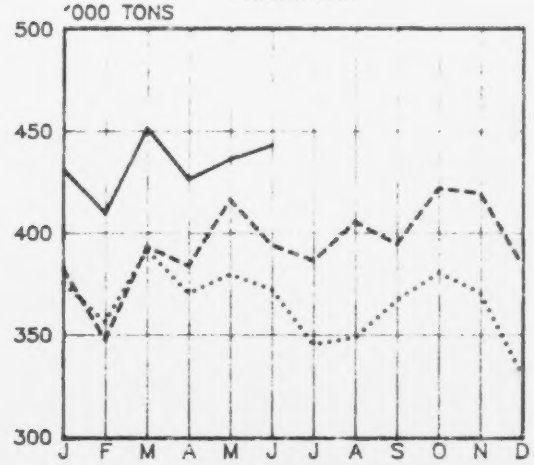
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



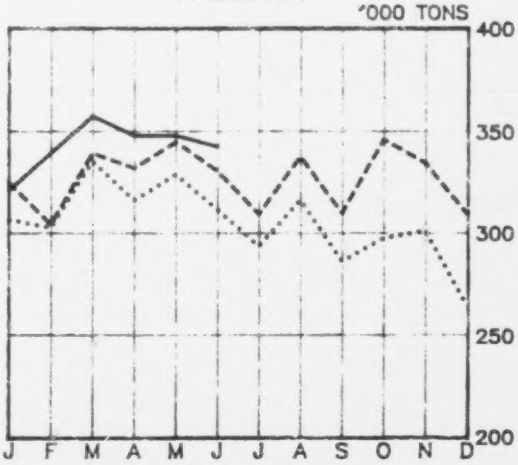
RECYCLED PAPERBOARD
PRODUCTION



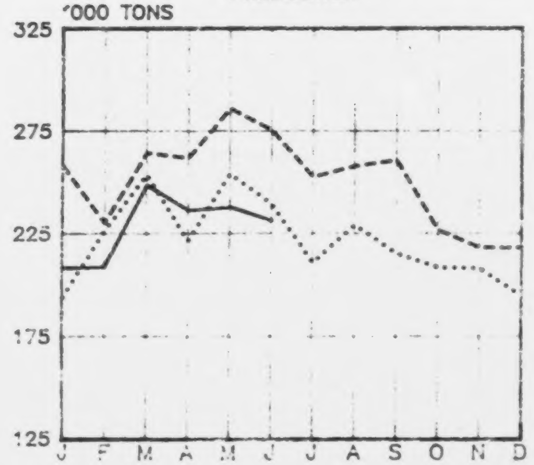
SEMICHEMICAL PAPERBOARD
PRODUCTION



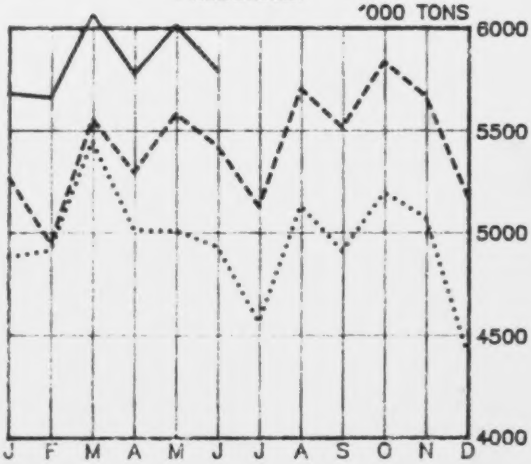
SOLID BLEACHED PAPERBOARD
PRODUCTION



PAPERBOARD FOR EXPORT
PRODUCTION



TOTAL PAPER AND PAPERBOARD
PRODUCTION



1982 ······· 1983 - - - - - 1984 ———

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1983 Tons	YEAR 1983 $000	APRIL 1984 Tons	APRIL 1984 $000	MAY 1984 Tons	MAY 1984 $000	(1) Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulpwood Roundwood (cords)	155124	7471	8838	399	17345	1032	163586	76.1
Pulpwood Chips	1991453	49104	200270	4300	159251	3601	2680774	32.2
Total All Imports	13248280	5526141	1185624	550966	1331960	608415	15018280	22.0
Wood Pulp Total	4093436	1472478	337658	138150	387056	165205	4375853	14.6
Waste Paper	100410	10537	9088	1016	9595	835	107374	33.9
Other Fibrous Materials	68003	24272	5949	2075	6634	2403	70158	1.9
Paper Board & Products Total	8986431	4018855	832929	409725	928675	439972	10464896	25.5
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	8834560	3582292	814336	360960	909685	395135	10259005	24.9
Paper Ppbd & Prds ex Cnst&WMB	8509180	3911591	793653	359760	889511	431016	10019805	27.2
Paper & Paperboard Only	8357309	3475028	775060	350995	870521	386179	9813914	26.7
Paper Total	8189491	3428868	756428	345229	849738	379754	9550128	25.9
Newsprint	6919348	2757524	572889	239083	653970	269867	7445170	13.4
Printing & Writing	1151011	587426	166980	96295	179122	98902	1923475	108.7
Uncoated Groundwood	732237	331017	86990	43067	103143	51007	1004069	64.5
Uncoated Book	154147	88632	23247	15398	21320	13021	283176	107.5
Coated Print.& Impres. Pap	162441	101289	26066	17842	32240	21466	315977	188.8
Bristols	471	557	52	71	36	36	606	75.9
Writing and Similar Paper	81458	46718	28394	16095	19510	10876	268937	469.4
Thin (except Cigarette)	20258	19213	4231	3823	2873	2496	50709	271.5
Total Pkg & Other Paper	107515	75694	12471	8450	14782	9698	162874	66.9
Unbleached Kraft Paper	42013	17454	3227	1546	3102	1396	51205	44.1
Other Pkg. & Indust. Paper	65503	58240	9244	6904	11680	8302	111669	79.9
Tissue	11617	8225	2088	1402	1865	1288	18610	91.9
Paperboard, Total	167818	46160	18632	5766	20783	6425	263786	64.8
Test or Containerboard	48119	13042	6690	2278	5256	1705	77474	51.6
Semi-Chemical Corrugating	69564	14509	7479	1973	9428	2435	118275	89.6
Other Paperboard	50136	18609	4464	1514	6100	2285	68038	46.1
Convtd Paper&Paperbd Products	151872	436563	18593	48765	18990	44837	205891	60.2
Paper Products, Total	124816	373966	15699	42854	16195	39286	176653	70.2
Paperboard Products, Total	27055	62597	2894	5911	2795	5552	29238	18.0
Wet machine Board	3584	2422	241	162	244	183	3394	-6.6
Construction Paper & Board	473667	104842	39036	9804	38920	8772	441696	-4.0
Notes								
Other: No Weight Avail. ($000)		148251		13418		16449	183296	52.5
Total Imports Incl. Other($000)		5674392		564384		624863	6883318	32.8

EXPORTS

	YEAR 1983 Tons	YEAR 1983 $000	APRIL 1984 Tons	APRIL 1984 $000	MAY 1984 Tons	MAY 1984 $000	(1)	
Pulpwood, Roundwood (cords)	69497	4405	5195	289	7954	473	56491	-1.7
Pulpwood Chips	2554176	171269	188214	12920	183034	11865	2255450	-13.3
Total All Exports	10888949	4221511	859557	349608	1051082	427516	11356945	7.2
Wood Pulp,Total	3643963	1362022	249219	105064	336389	145814	3686645	2.8
Cotton Pulp and Other Pulp	102863	69805	8632	6595	6022	4961	90518	-7.2
Waste and Old Paper	2573716	308915	248111	31879	278543	35919	3121678	31.1
Paper, Board & Products,Total	4558407	2480769	353595	206071	430128	240823	4458104	-1.5
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	3984277	1717768	307309	142406	381359	174877	3851308	-2.6
Paper, Ppbd & Prod ex Cnst&WMB	4501039	2448779	346395	202666	422778	236845	4371740	-1.8
Paper & Paperboard, Only	3916910	1685778	300110	139001	374008	170899	3764945	-3.1
Paper, Total	773414	598370	67647	50199	94097	67117	857772	11.2
Newsprint	294870	127119	25441	10710	39628	18049	324027	21.2
Printing & Writing	201798	198304	16091	16512	20624	21597	217284	7.3
Uncoated Groundwood	37289	33300	3344	3039	3057	2758	30890	-14.3
Clay Coated Paper	78182	60033	6831	5483	8036	7069	86098	23.4
Uncoated Free Sheet	59125	71662	4288	5597	7081	8919	68558	8.4
Other Printing & Writing	26202	33310	1628	2383	2451	2851	21737	-14.0
Total Pkg. & Other Paper	260865	255086	23815	21446	32570	25529	288917	5.6
Unbleached Kraft	116170	43227	8711	3552	10587	4360	110680	-12.7
Other Pkg. & Indust. Paper	144695	211859	14204	17894	21984	21169	188237	20.4
Tissue	15881	18861	2200	1531	1275	1941	17545	-3.7
Paperboard, Total	3143496	1086408	232463	88802	279911	103782	2907173	-6.6
Solid Wood Pulp	2993868	1016184	218488	83146	263421	96708	2753223	-7.4
Total Linerboard	2254538	575862	154614	45567	192744	57501	1992360	-9.4
Bleached Kraft Linerboard	160253	64814	4443	1981	6748	3093	129033	7.4
Unbleached Kraft Linerbd	2094285	510948	150172	43586	185985	54408	1863326	-10.4
Other Unbleached Kraft	107141	51822	14727	6599	12820	5203	129722	18.3
Other Bleached Kraft	558431	371357	45947	28906	50325	31709	584544	3.0
Semi-Chemical Corrugating	73758	17144	3180	1074	7533	2294	46597	-51.7
Recycled Paperboard	149628	70224	13995	5656	16490	7075	153950	9.7
Convtd Paper&Paperbd Products	584129	763001	46286	63664	48770	65946	606796	6.3
Paper Products, Total	311722	535596	24835	44857	25007	46079	319837	3.5
Paperboard Products, Total	272408	227406	21451	18708	23763	19867	286958	8.7
Wet Machine Board	11622	5420	1119	567	2185	1049	15048	8.8
Construction Paper & Board E	55746	26570	8081	2838	5165	2929	71316	28.9
Notes								
Other: No Weight Avail. ($000)		7865		653		650	7410	8.8
Total Exports Incl. Other($000)		4229475		350261		428167	4508144	8.0

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES
1967 = 100

	1982	1983	MARCH	APRIL	MAY	JUNE	Annual Rate Y-T-D 1984	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	273.2	271.4	286.4	290.1	292.7	293.3	287.8	7.0
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	275.9	273.3	287.1	290.6	297.7	293.9	289.3	6.6
Total Wood Pulp	379.1	347.1	376.0	392.5	405.1	407.6	386.5	12.2
Total Paper	286.3	282.3	299.2	300.6	301.3	301.4	298.9	7.2
Total Paper, exc. Newsprint	278.3	277.0	298.6	299.7	300.7	300.9	298.6	9.3
Newsprint	315.8	303.0	316.0	316.0	314.8	314.8	313.5	4.8
Total Paperboard	254.9	250.8	273.8	275.4	276.9	279.1	272.8	10.6
Total Paper and Paperboard #	276.5	272.4	291.2	292.7	293.6	294.4	290.7	8.1
Converted Products	264.4	265.4	274.1	277.7	280.6	280.8	275.9	4.2
Waste Paper	121.1	158.6	242.9	258.8	259.3	257.3	243.2	109.6
All Commodities	299.3	303.1	311.1	311.4	311.7	311.4	310.4	3.1
Industrial Commodities	312.3	315.7	321.9	322.5	323.3	323.9	321.9	2.6

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes[1/]			Earnings/Sales	
	1984 (Million	1983 Dollars)	Change 84/83 %	1984 (Million	1983 Dollars)	Change 84/83 %	1984	1983
32 Paper and Allied Products Companies								
First Quarter	12,319	10,265	+20.0	539.0	326.6	+65.0	4.4	3.2
Second Quarter	13,064	10,879	+20.1	735.3	395.3	+86.0	5.6	3.6
First Half	25,383	21,144	+20.0	1,274.3	721.9	+76.5	5.0	3.4
3 Forest Products Companies								
First Quarter	2,989	2,573	+16.1	89.8	54.6	+64.5	3.0	2.1
Second Quarter	3,373	3,058	+10.3	190.5	119.6	+59.3	5.6	3.9
First Half	6,362	5,632	+13.0	280.3	174.2	+60.9	4.4	3.1
3 Canadian Pulp and Paper Companies								
First Quarter	1,117	902	+23.8	39.5	- 5.0	N.M.	3.5	N.M.
Second Quarter	1,266	1,028	+23.2	49.6	20.8	+138.5	3.9	2.0
First Half	2,383	1,930	+23.5	89.0	15.8	+463.3	3.7	0.8

1/ As published; income from current operations is used when published separately.

N.M. - Not meaningful.

Continued from Page 2

The major markets for corrugated shipping containers are in the industrial production sector of the economy. In the first half of 1984 total industrial production, as measured by the Federal Reserve Board index, was 14% over its year-ago total. This was paced by a 17% increase in production of durable consumer goods and industrial equipment. While these are both important markets for corrugated shipping containers, the major markets for these products are in the consumer goods sector, which showed a 9.5% increase from the first half of 1983 to the first half of 1984.

Boxboard production for domestic use also finds its major markets in the non-durable goods sector of industrial production. Within the boxboard grade structure, total folding boxboard production (including production for export) rose by 8.6% from the first half of 1983 to the comparable 1984 period. However, exports were down by 27%, while production of clay coated solid bleached folding boxboard for domestic use rose by 11.6% and clay coated recycled folding boxboard was up 10.1%. Set-up boxboard production continued strong, showing a 15% gain over its year-ago level, but the milk carton and food service grades total did not quite keep pace with their year-ago total, largely reflecting a decline in exports. Production of milk carton stock, cup stock, plate, dish and tray stock for domestic use was fairly close to its year-ago total.

Fibrous Raw Materials

Total production of wood pulp in the first half of 1984 was at the rate of 56 million tons per year, 7.7% over the comparable 1983 total. Production of the paper grades showed an 8.1% increase, but production of dissolving pulp fell by 4.4% However, the shipments of dissolving pulp rose by 3% in the first half of 1984; in 1983 mill inventories increased by about 35,000 tons, while in the first half of 1984 they decreased by 13,000 tons.

Production of chemical paper grade market pulp in the first half of 1984 was 6.5% over the year-ago total, with shipments to the domestic market rising 14% and export shipments rising about 4%. The increase in shipments to the domestic market is consistent with the trend in printing-writing grades - their major market. Total shipments of chemical paper grade market pulp in the first half of 1984 were 9% above their year-ago level, as the pulp producers drew upon inventories. As of the end of June 1984, producers' inventories of chemical paper grade market pulp were equivalent to 21 days of supply, compared to 26

Continued on Page 12

days of supply as of the beginning of the year. Among the major export markets, shipments to Japan in the first of 1984 were 34% over the year-ago level, shipments to Western Europe, down 4% and shipments to other markets up about 2%. Total inventories of North American and Nordic chemical paper grade wood pulp, which had been close to 2 million metric tons in late 1982 and had dipped below one million tons earlier this year, have since recovered slightly and are now just over one million metric tons.

The strong demand and high operating rates in the paper sector of the industry, particularly the printing grades, have also stimulated demand for pulp imports. API data show that imports of chemical paper grade market pulp in the first five months of 1984 were 15% over their year-ago level. Total new supply (production plus imports minus exports) of these grades, was a record 5.6 million short tons per year, 13.8% over the comparable 1983 level.

Sales and Earnings

Both sales and earnings of paper industry companies responded strongly to the evident upsurge in 1984 production. Data on 32 paper companies reported in the press show net sales for these companies up 20% over their year-ago level. These companies accounted for more than two-thirds of the sales of all paper and allied products companies. These same companies showed a 76.5% increase in after-tax profits over their year-ago totals, reflecting a 65% increase in the first quarter of the year and an 86% increase in the second quarter. The margin on sales for these companies in the first half of 1984 was 5.0%, which is about the long term average for the industry. This marked a strong recovery from the 3.4% margin on sales shown for these companies for the first half of 1983.

Sales of forest products companies also recovered strongly from their 1983 levels. Data on three forest products companies as reported in the press showed sales up 13% for this period, with profits up 61%. The margin on sales for these companies during the first half of 1984 was 4.4%, with the first quarter rate at 3.0% and the second quarter at 5.6%.

Data available in the U.S. press on Canadian companies indicate that they too showed a recovery. Their sales margin, however, tended to be a little lower than those of the U.S. paper and forest products companies.

The data are shown in the table on the lower half of page 10.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

JULY 30, 1984

	PRODUCTION (000 TONS)					
	June 1984	May 1984	June 1983	Jan - June 1984	Jan - June 1983	% Change 84/83
PAPER GRADES	P	R				
Newsprint	468	481	410	2803	2559	9.5
Printing & Writing	1536	1611	1466	9349	8502	10.0
Uncoated Groundwood (s)	143	133	131	812	743	9.3
Coated Paper (s)	518	546	476	3126	2703	15.7
Uncoated Free Sheet Paper (s)	750	804	742	4663	4361	6.9
Thin Paper (s)	31	29	30	177	172	2.9
Cotton Fiber Paper (s)	11	12	10	73	65	12.2
Bleached Bristols (s)	83	86	77	499	458	8.9
Tissue Paper	406	412	393	2441	2374	2.8
Total Pkg & Other Paper	471	502	461	2972	2749	8.1
Unbleached Kraft Packaging & Indl. Converting (s)	316	330	312	1976	1860	6.2
Other Paper *	155	172	149	997	889	12.1
TOTAL PAPER	2881	3005	2730	17565	16185	8.5
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1497	1539	1343	8729	7955	9.7
Unbleached Kraft Linerboard	1389	1426	1237	8129	7386	10.1
Other Unbl. Kraft Paperboard	108	113	106	599	569	5.4
Semichemical Paperboard	443	436	394	2598	2317	12.1
Bleached Paperboard	343	348	331	2058	1977	4.1
Recycled Paperboard	673	688	628	4104	3657	12.2
TOTAL PAPERBOARD	2956	3012	2695	17489	15907	10.0
TOTAL PAPER AND PAPERBOARD	5837	6017	5425	35055	32091	9.2

WOOD PULP (ALL GRADES)	May 1984	April 1984	May 1983	Jan - May 1984	Jan - May 1983	% Change 84/83
Dissolving & Special Alpha	109	117	133	535	541	-1.2
Bleached Sulfite	117	129	106	583	538	8.5
Unbleached Sulfite	26	24	29	121	135	-9.9
Bleached & Semi-Bl. Sulfate	1866	1886	1824	9301	8772	6.0
Unbleached Sulfate	1820	1745	1663	8780	8020	9.5
Semichemical	355	351	329	1751	1578	11.0
Groundwood and Thermomechanical	476	472	425	2331	2086	11.7
TOTAL PULP DIVISION DATA	4769	4722	4509	23402	21670	8.0

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

July 30, 1984

	Full Year		INDUSTRY DATA R	R	P	Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
PAPER AND PAPERBOARD -- Tons (000)	1982	1983	April	May	June		
Total Production (API)........| excluding |...	59456	65139	5780	6017	5837	70109	9.2
Total Seasonally Adjusted....|construction|...			5673	5740	5669	68402	8.6
Imports (including Products).| and wet |..E	7603	8509	794	890	N.A.	10050	23.3
Exports (including Products).| machine |..E	4187	4501	346	423	N.A.	4445	-0.9
Apparent Consumption.........| grades |...	62872 a	69147 b	6121	6207	6119	74009c	
Paper Production % Tonnage Capacity...........	97.8 g	93.6 g	96.4	96.6	95.7	96.4 gh	-
Paperboard Production % Tonnage Capacity......	82.1 g	90.4 g	96.8	96.9	98.4	96.3 g	-
			March	April	May		
IMPORTS.....|Including Construction and |.....	8024	8986	860	833	929	10465	25.5
EXPORTS.....| WMB Grades (excl. HPB) |.....	4246	4568	402	354	430	4458	-1.5
MARKET WOOD PULP PRODUCTION - Tons (000)........	5732	6478	592	584	560	6813	5.7
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	49334	52537	4858	4722	4769	56164	8.0
WOOD PULP IMPORTS - TONS (000).................	3656	4093	341	328	387	4376	14.6
WOOD PULP EXPORTS - TONS (000).................	3395	3644	374	249	336	3687	2.8
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS | excluding |			March	April	May		
Wood Pulp............|consumption for|.....	47767	50961	4649	4550	4710	54725	9.5
Waste Paper..........|construction & |.....	13565	14539	1389	1322	1389	16005	11.3
TOTAL.........| WMB grades |.....	61332	65500	6038	5872	6099	70729	9.9
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79039	85442	7660	7344	7439	88615	4.6
EMPLOYMENT (000)			April	May	June		
Paper and Allied Products..........Total......	662.4	661.6	677.4	680.0	688.2	678.2	3.7
Pulp, Paper and Board Mills........Total.....E	258.9	258.2	261.7	263.4	265.6	262.6	2.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....................	9.32	9.94	10.29	10.33	10.39	10.29	5.6
Pulp, Paper Mills...........................E	10.87	11.70	12.19	12.23	12.30	12.18	6.9
Paperboard Mills............................E	11.13	12.11	12.79	12.80	12.85	12.71	7.5
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q4	1984 Q1	1984 Q2		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.97	6.18	6.24	7.07	7.09	7.13y	15.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100).........			April	May	June		
|IN PULP, PAPER |...Production Workers.........	109.3	119.3	121.5	121.3	118.5	121.9	2.7
|AND BOARD MILLS|...All Employees.............	107.7	118.4	120.9	120.8	117.7	121.1	3.8
PAPER AND ALLIED PRODUCTS (Million $)			March	April	May		
Industry Shipments (Dept. of Commerce)*.......	78992	85662	7778	7784	8044	93950	15.2
Pulp, Paper and Paperboard*.................	33523	36346	3377	3411	3527	40944	18.8
Inventories (End of Period) - Total Industry*.	8607	8729	8914	9036	9116	9116	9.2
Pulp, Paper and Paperboard*.................	3365	3263	3293	3326	3322	3322	0.5
			1983 Q3	1983 Q4	1984 Q1		
Sales (Corporations Only, FTC)................	60293	66100	16797	17279	17459	69836	12.5
Earnings (Corporations Only, FTC).............	1460	2337	678	675	629	2516	42.6
Depreciation (Corporations Only, FTC).........	2379	2645	688	655	693	2772	8.1
Net Worth (Corporations Only, FTC)............	26705	27509	27381	27509	27617	27617	2.3
PRICE INDEXES (Bureau of Labor Stats)1967=100			April	May	June		
Pulp, Paper & Products, ex. Building Grades...	273.2	271.4	290.1	292.7	293.3	287.8	7.0
Wood Pulp.....................................	379.1	347.1	392.5	405.1	407.6	386.5	12.2
Waste Paper...................................	121.1	158.6	258.8	259.3	257.3	Not Available	
Paper...	286.3	282.3	300.6	301.3	301.4	298.9	7.2
Paperboard....................................	254.9	250.8	275.4	276.9	279.1	272.8	10.6
PAPER DEMAND (INDEXED: 1967=100)			April	May	June		
Total Paper Production *......................	145.2	157.5	165.2	166.2	161.2	164.3	7.9
Paper New Supply *............................	135.1	147.6	157.0	160.7	157.0	156.0	11.2
Total End - Use Index *.....................	149.5	157.8	169.9	170.8	171.1	169.5	11.6
Production of Nondurable Goods *...(19%)..	156.1	168.0	179.2	179.9	180.2	178.2	9.8
Disposable Income (Constant $) *...(23%)..	157.8	163.4	173.4	174.1	175.5	172.9	7.4
Total Printing and Publishing *...(58%)..	144.0	152.3	165.4	166.5	166.4	165.3	14.1
Trend Factor	----------------------------Not Available----------------------------						
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *.................	127.6	141.2	146.7	149.3	150.2	149.0	9.4
Production for Domestic Use	122.7	135.5	142.4	145.0	146.3	145.1	11.9
Total End - Use Index *...................	139.5	148.9	161.4	161.9	162.7	160.6	12.0
Production of Consumer Goods *...(60.49%)	142.7	151.8	161.5	162.1	162.7	160.9	9.5
Production of Equipment *...(6.62%)	139.8	140.8	158.3	159.8	161.2	157.8	16.5
Production of Materials *...(32.89%)	133.7	145.2	161.8	162.0	162.9	160.5	16.1
Trend Factor	----------------------------Not Available----------------------------						
NEWSPRINT MARKETS			March	April	May		
Consumption by Publishers - Tons (000)........	11141	11671	1043	1068	1069	12202	8.8
Newspaper Pub. and Printing Empl. Total(000)..	417.5	421.6	437.1	438.2	438.6	437.4	5.1
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)..........	121617	56026	12628	13825	13836	144950	7.8
WHOLESALERS SALES AND INVENTORIES (Million $)(j)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	22776	26532	2623	2497	2680	30307	21.9
Inventories (End of Period)	1885	2341	2410	2452	2503	2503	20.7
FIBRE BOX DATA (Fibre Box Association)			April	May	June		
Fibre Box Shipments (Million square feet)......	235185	252539	21951	23013	22387	269416	9.1
Container'bd Inventory at Mill & Plant(000Tons)	2584	2437	2512	2541	2620	2620	4.3
RETAIL TRADE (Million $)							
Total Retail Sales *..........................	1074467	1171915	107505	108094	108969	1280582	12.4
Nondurable Goods Stores Sales *..............	753568	793398	70069	70313	70404	835214	7.3
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	138.6	147.3	162.2	162.8	163.6	161.3	14.0
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	299.3	303.1	311.4	311.7	311.4	310.4	3.1
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	289.1	298.4	308.8	309.7	310.7	308.1	4.4
			March	April	May		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	344.8	387.9	402.5	418.1	422.3	422.3	21.6
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).			1983 Q4	1984 Q1	1984 Q2		
G.N.P. or Expenditure - Current $..............	3069.2	3312.3	3461.9	3553.3	3646.4	3599.9	11.8
G.N.P. or Expenditure - 1972 $................	1485.4	1535.3	1572.5	1610.9	1640.2	1625.6	7.6

lb/capita

Pap&Papbd	Othr	Totl	Popul(mil)
.a - 543	+ 15	= 558	232.0
.b - 589	+ 18	= 607	234.2
.c - 629	+ 18	= 647	235.2

.E - Last month estimated by API
.e - estimated by API

g - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
j - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted